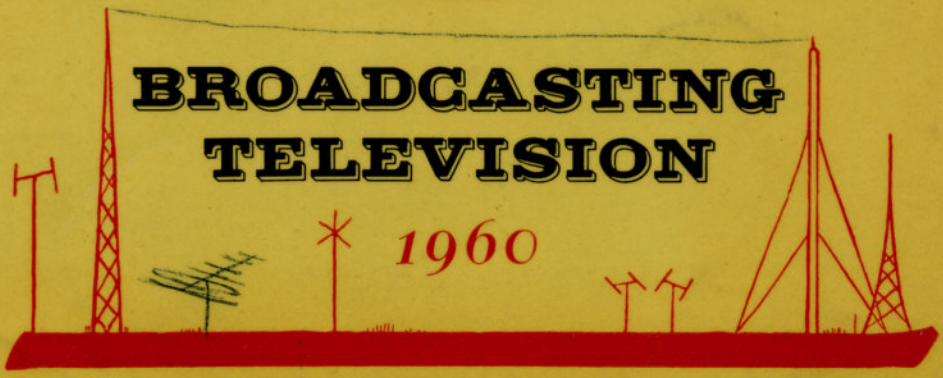
WORLD RADIO HANDBOOK

for listeners



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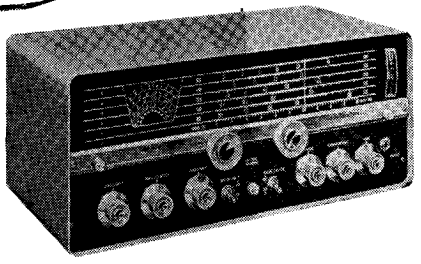

Model SX-110. The SX-110, an entirely new receiver in the medium price class, fills the need of the Amateur or shortwave enthusiast who desires features normally found only in higher priced units, such as an "S" meter with full vision vertical dial, antenna trimmer, and crystal filter. Housed in a functionally styled cabinet, the SX-110 is the leader in its field.
Frequency Coverage: Broadcast band 540-160 kc plus three shortwave bands covers 1550 kc-34 mc.
Power Source: 105/125 volts, 50/60 cycle AC.
Physical Data: Gray steel cabinet with brushed chrome trim. Size – 18¾" w., 8" h., 10¼" d, Shipping wgt. – approx. 32 lbs.

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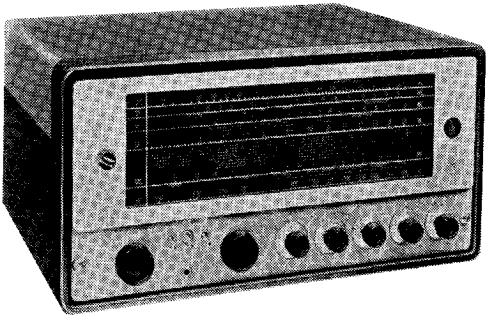

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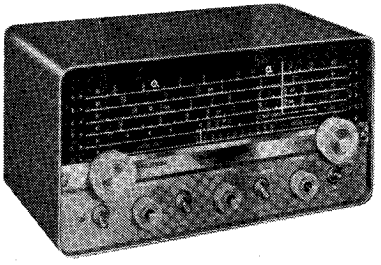

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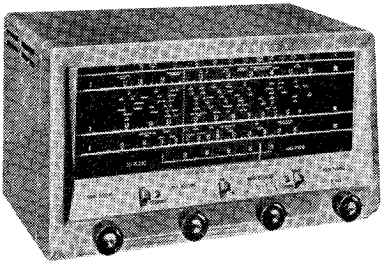
S



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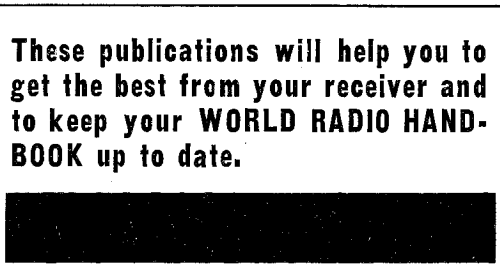

In June/July 1960 we can send you a supplement to WRH with corrections of the WRH 60, including summer schedules of the most important short wave stations all over the world. In order to be able to estimate the size of circulation, please send your order as early as possible. The price, including postage, will be: Dan. Kr. 5.00, £ 0/5/3, $ 1.00, DM. 3.25, Sw. Kr. 4.25.

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WORLD RADIO HANDBOOK

BROADCASTING-TELEVISION 1960

including World-wide Radio WHO's WHO

Fourteenth Edition

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PREFACES

With the appearance of this – the fourteenth – edition of the World Radio Handbook I want to express my sincerest thanks to the understanding cooperation of the United Nations, Unesco, the European Broadcasting Union, Geneva, the International Broadcasting Organization, Prague, all broadcasting and television organizations and many individuals, radio clubs, radio firms, etc.

It is this interest in the purpose of the WRH: the promotion of understanding between the peoples of the world, that has made it possible to develop and improve WRH, making it a valuable link between the radio corporations themselves and between them and listeners in all countries; for this I feel deeply grateful. I trust that this valuable cooperation will continue and make it possible for WRH to keep touch with developments for the benefit of both parties. I hope for reception free of interference in the new year, in order that broadcasting can fulfil its real purpose: to be a means of knitting human beings together in a peaceful cooperation.

O. Lund Johansen.

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The place of radio and television broadcasting in the lives of people all over the world is so well established that little further need be said of the importance and the usefulness of these communications media. Much is being done both in the engineering field and the programming area of broadcasting, and the benefits of research and development are being enjoyed by millions of listeners and viewers. Because of the great size of a country like Canada, many of the problems of transmission over vast distances have always been a real challenge. The achievements of the Canadian Broadcasting Corporation in providing service to Canadians have been furthered very substantially through the work of engineers and technicians in other lands. It is our hope that many of the problems we have solved have helped others. It is this interchange of information which makes it possible for the whole broadcasting industry to make the strides it has been making in recent years. In forging closer links between broadcasting organizations, such reliable reference works as the *World Radio Handbook* play an increasingly vital role.

WLODZIMIERZ SOKORSKI
President,
Polskie Radio

POLAND:

Tall, slender towers of radio and TV transmitters are scattered all over the world. Antennas stick out over the roofs of the houses in large towns and in small villages. They are reached by the voice and the vision of the world. The idea of "provinciality" appears to be anachronic.

We are powerful. We have conquered Time - our words, spoken in one hemisphere are heard simultaneously in the other; we have conquered Space - and inhabitant of the capital of one country sitting in a cosy armchair in his home watches a TV programme, beamed from the capital of another country.

Our programmes inform, teach, entertain - they call forth meditation and smiles, tears of joy and happiness, sometimes —also tears of grief.

We must do all we can to make these powerful media serve only happiness and further development of mankind.

It is towards this end that we have to reinforce the co-operation between radio and TV organisations, to increase exchange of experiences and first of all—exchange of information and programmes of all kinds in so far as they make for better mutual understanding and acquaintanceship between the nations.

Polish Radio works alongside many of the radio and TV organisations in *the World Radio Handbook*, but we are always able to learn many interesting details about our old friends and acquaintances from it.

UNITED STATES INFORMATION AGENCY:

On behalf of the U.S. Information Agency, I extend sincere greetings to the WORLD RADIO HANDBOOK which effectively helps radio listeners evrywhere to find and distinguish the international broadcasts of all countries. We believe that every individual should have available a large number of sources of news and entertainment. The greatest safeguard to freedom of information is a multiplicity of sources. Democracy means that individuals make up their own minds, after hearing various sides of a question. The late Oliver Wendell Holmes, celebrated U.S. Supreme Court Justice, said it very well: "Let your ideas find their currency in the competition of the market place."

GEORGE V. ALLEN
Director,
U.S. Information Agency

Continued page 6.

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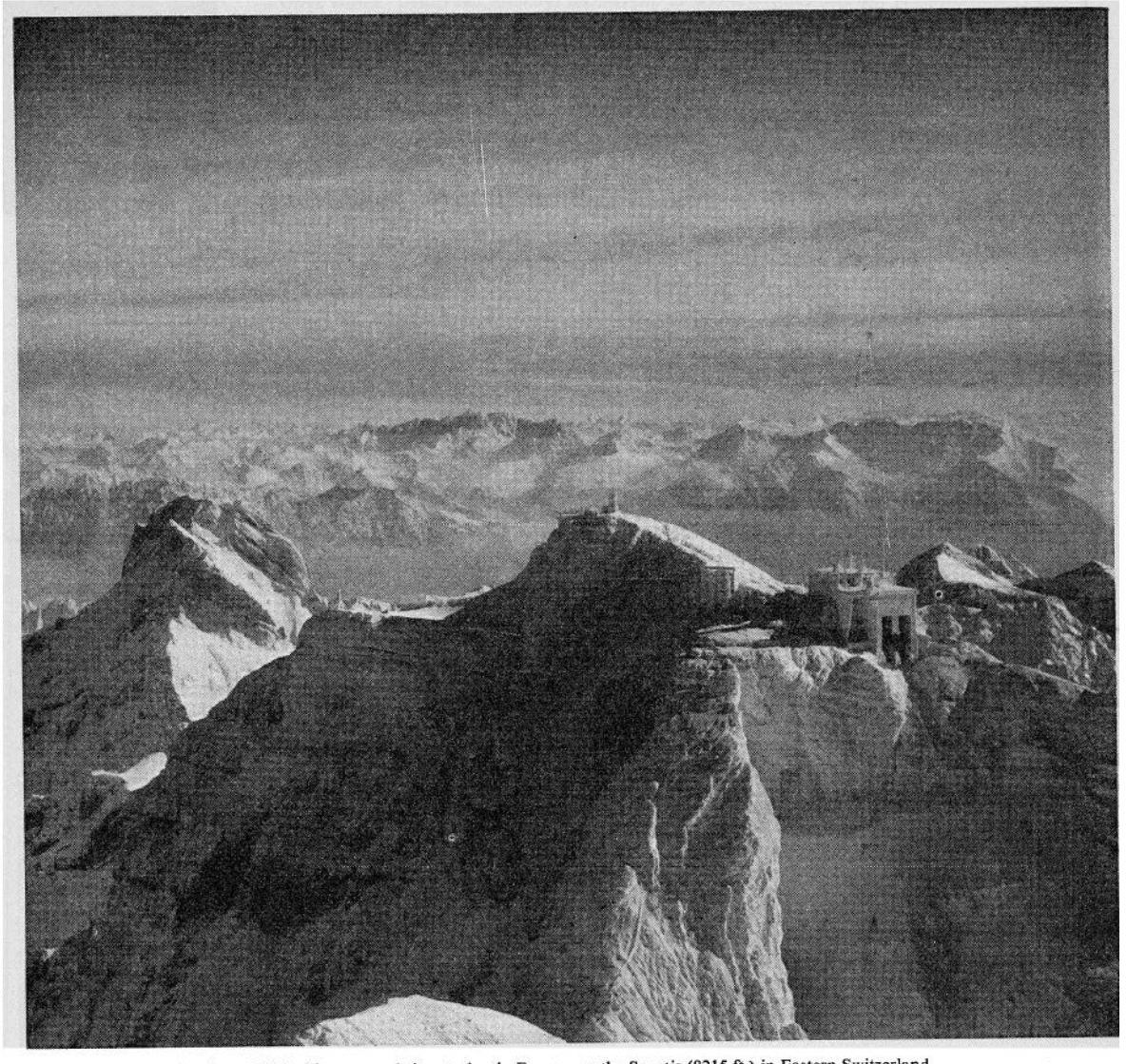

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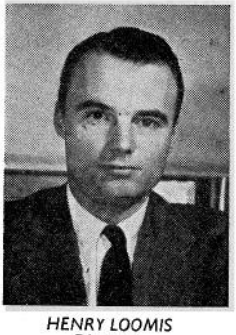
W. GIBSON PARKER
Director, Radio and Visual Services Division
United Nations

Today, despite the conflicts and tensions which are generated in international life, and which consume so much of our time and energy, it is possible to detect the beginning of what Mr. Dag Hammerskjold, the Secretary-General of the United Nations, has called "a new Synthesis . . . progress in the direction of a human community which, while retaining the special character of individuals and groups, has made use of what the various branches of the family of man have attained along different paths over thousands of years". In short—individual diversity strenthened and protected by a living sense of interdependent unity.

We, in United Nations Radio and Television get a feeling of deep satisfaction in making our modest contribution towards this progress this uniquely twentieth-century evolution. Whether the programme is a factual report on the debates in the General Assembly or a documentary exploring the broad social and economic issues of our time, we strive to communicate this sense of essential unity. We believe that it's not only worthwhile but imperative, and we value greatly the cooperation we receive from so many of the broadcasting organisations listed in *The World Radio Handbook*. The links we have established with them over the years are, in themselves, evidence of the "new synthesis". As also, indeed, is the service the *World Radio Handbook* provides.



HENRY LOOMIS
Director,
Voice of America,
U.S. Information Agency

UNITED STATES, VOICE OF AMERICA:

Of major importance to broadcasters evrywhere is the development of the transistor radio. In many areas of the world, electricity is still a rarity. The transistor radio has leaped this barrier to communication. The number of short-wave listeners has increased and will continue to increase enormously because of the availability, the cheapness and the ease of maintenance of this receiver. In areas where distance has isolated the individual, the outside world has suddenly become a reality. News, ideas, music, drama, commentary are spilling into his home.

And broadcasters from all over want to have a part in bringing their points of view to the ears of this vast new audience. WORLD RADIO HANDBOOK plays its role informing the listener about the wide variety of programs he has to choose from. Hours of broadcasts are expanding. Higher powered transmitters are being built. More broadcasts in indigenous languages are being beamed abroad. New countries are engaging in external broadcasting.

This is all to the good. Responsible broadcasting is an important bridge to understanding other peoples' language, culture and customs. Such an understanding is vital if the world is to build toward a secure peace.

UNITED STATES, OFFICE OF EDUCATION:

The stimulating influence of free broadcasting over the developing world present a vivid picture in the Geophysical Year which we have just completed. The results of the achievements in art and science and music, alone serve as a contribution to the Living Present, which can be analyzed through communication between and among the civilized nations of mankind. That such an era has now come about should make us eternally grateful and humble in the presence of Almighty God "from whom all blessings flow". It is to such publications as represented by this book and to its redoubtable and courageous Editor, O. Lund Johansen that we owe an additional debt of gratitude for making it possible for us to realize the extent and purpose of world-wide broadcasting. This is, at once, a record and a reference that we, as broadcasters, cannot do without.

FRANKLIN DUNHAM, Chief, Radio-Television, U.S. Office of Education

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The Editor of the World Radio Handbook seeks information from all stations engaged in broadcasting and interested in international broadcasting and publishes the information as communicated to him by the stations. The Editor cannot be held responsible for the correctness of this information or for not publishing schedules and other particulars of stations which do not supply the information or for changes in the times and wavelengths of programmes made after the current edition has gone to press.

DEUTSCHE WELLE

Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland

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The VOICE OF GERMANY, Deutsche Welle is beamed to the

FAR EAST

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AFRICA

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NORTH AMERICA

ARABIAN SERVICE

NEWS IN 5 LANGUAGES

GERMAN LANGUAGE COURSES

Programme suggestions and reception reports are very much welcomed, letters should be addressed to

DEUTSCHE WELLE – KÖLN

Funkhaus, Wallrafplatz, Germany

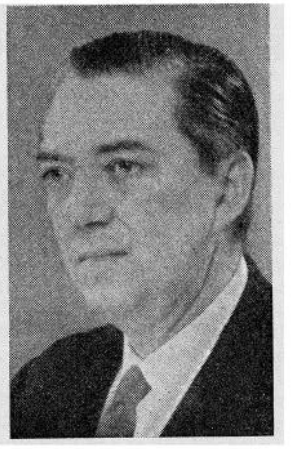
Postbox 344

Detailed reports are answered by QSL card

Please refer to GERMANY for details

THE FUTURE OF SOUND RADIO

By José Garza y de Garate, Acting Chief, Radio Division, UNESCO.



José Garza y de Garate

The future of sound radio is a theme which has always featured prominently in the minds of administrators and operators and in the past few years, with the advent of television, many have feared that the newcomer was destined to take over the entire field of broadcasting. But even the gigantic strides taken by TV during the past few years cannot belittle the latest statistics on radio which, even in countries where television is widespread, show a constant increase in the sale of radio receivers.

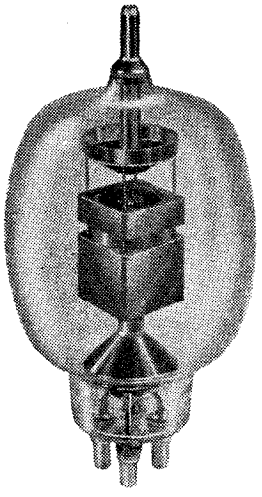
In a majority of countries to-day, radio is still far from reaching the saturation point. It is calculated that there is a potential market for over 350 million receivers, provided these can be supplied at prices compatible with the economic standards of the needful countries. This is a challenge which several international organizations, including Unesco, are trying to meet, and it is not excessive to say that radio may soon become the greatest purveyor of information and ideas that the world has ever known.

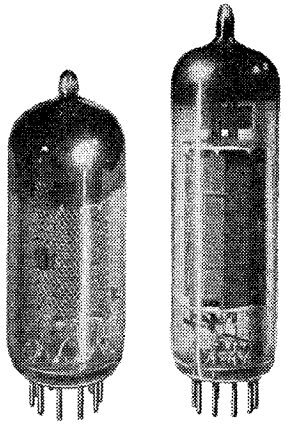
But this is only one of many barriers which stand in the way of a fuller development of radio as a means of international mass communication. Some of these barriers are man-made; others are the product of ignorance, misunderstanding or prejudice. What man has done, he can undo, and what he ignores he can learn. It is to the interest of nobody that stations interfere with each other's broadcasts, but the road to an equitable and fair distribution of wavelengths is long and encumbered by false interests that only the light of sober discussion can dissipate.

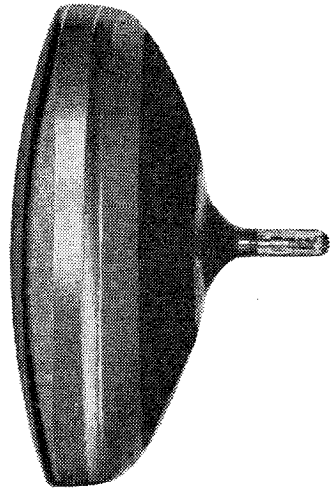
And yet, the progress already made is most encouraging. The practice of international programme relays is becoming common practice among friendly nations. Transcriptions continue to flow in ever larger quantities from one part of the world to the other. Because of the still inadequate short-wave international services, the recorded programme continues to be the best international means of mass communication, but much is yet to come.

One encouraging feature in the vast tangled flow of international broadcasting is that many countries which were previously on the "receiving" end are now beginning to "talk back". This, of course, makes the problem of orderly distribution of wave-lengths all the more intricate, but it is a healthy note that two-way communications, even at this rudimentary and unsatisfactory stage, have been established. The often voiced ideal of "people speaking to people" may thereby one day become a reality.

In 1956 Unesco launched a major project to promote the mutual understanding of cultural values between the Orient and the Occident. This project has now found expression in several concrete priority enterprises in which the mass media, and particularly radio, play an important role. At present, special attention is being given to the exchange af radio personnel and materials to foster a better understanding of each other's audience reactions. This should prepare the ground for the day when long distance broadcasting takes on the task of clearing the road to international understanding and good will with constructive programmes that foster the universal desire for peace. *The World Radio Handbook*, which for the past fourteen years has been bringing an invaluable element of order into the vast field of international broadcasting, is, we believe, *destined to become an indispensable source of information, and of constantly greater value to broadcasters and listeners alike.*

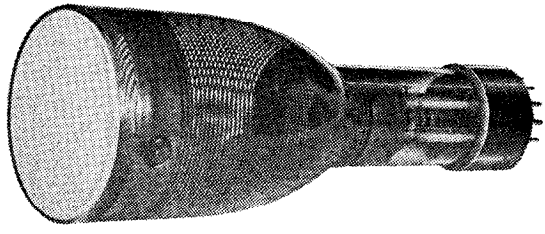


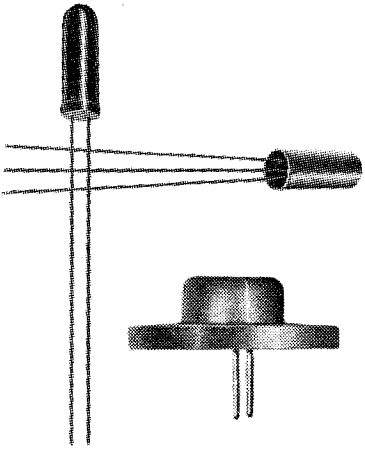




PHILIPS

electron tubes and semi-conductors





Philips manufacture a complete range of electron tubes, from the smallest battery-fed subminiatures to giant transmitting tubes for broadcasting and industry; from electrometer tubes handling extremely small currents to heavy duty ignitrons, from tiny phototubes to 300 kV X-ray tubes.

In the fast growing domain of solid state electronics Philips are contributing on an ever increasing scale to the progress and development of semi-conductors. A complete range of diodes and transistors for the whole field of applications is available.

SHORTWAVE RADIO CONDITIONS DURING 1960

T. W. Bennington, Research Dept., BBC, England.

In shortwave radio transmission it is necessary to change the wavelength used so as to suit the conditions prevailing in the ionosphere over the transmission path. This is because the wave travels from transmitter to receiver by successive reflections at the ionosphere and at the ground, and, owing to the fact that the ionosphere is produced by the sun, conditions within it continually change, with time of day, season of the year and over the 11-year period of the sunspot cycle. When the ionisation of the ionosphere is at its highest level, as at sunspot maximum, the shortest wavelengths in the shortwave bands are of most use, but when the ionisation level falls, as it does towards sunspot minimum, longer wavelengths within that band must be used.

It is now practically certain that sunspot maximum occurred at the epoch February/March 1958, for since then the average sunspot activity has been slowly decreasing. That is what usually happens after the maximum of a sunspot cycle with a high maximum like the present one, for in such cycles the decrease from maximum to minimum is much slower than the increase from minimum to maximum. But one can never tell wether or not secondary increases in the average activity are going to occur.

However the likelihood is that the average activity will go on decreasing – perhaps with some fluctuations – until about 1965, and that during the period from now until then the wavelengths of most use for shortwave broadcasting will gradually become longer, for any given transmission path at any particular time of day and season of the year.

But, as has already been indicated, the transition from the shorter to the longer wavelengths is likely to be a slow one, and, certainly, the decrease in sunspot activity since the maximum has, up to now, been but small. And it is unlikely that the sunspot number, which at the maximum was about 200, will be much below 110 at the end of 1960.

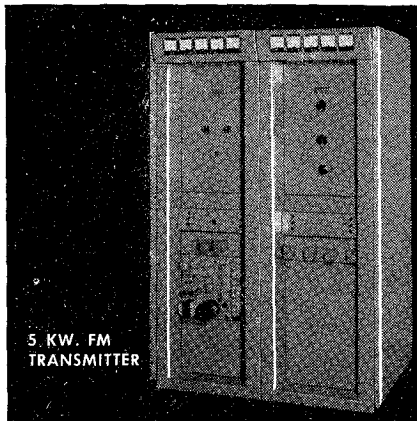
Even so, it is probable that during the year some small changes in the wavebands used will be found efficacious in maintaining the broadcasting services. It is not possible, in this short article, to deal with these for a large number of circuits, but the Table may be helpful in indicating the probable best wavelengths for three directions from Europe or vice versa, for good reception during different months and times of day. It is possible that, for only a part of each period shown, the next shorter waveband may also give good reception, and also the next longer. For short distances in the same directions the next longer wavelength will probably be best, but provided the distance is greater than 4000 kilometres the wavelengths shown should be usable. During the times not shown the best waveband should be one of these between those given for the nearest times, except during the early morning, when it is likely to be the next **longer** waveband to those given for the night period.

As will be noticed from the Table the best daytime wavelength is likely to change from the 11-metre to the 13-metre waveband during the summer months, and, for the North American circuit, to be in 19 and 16 metre bands during the summer months, and in the 13 metre band during the following autumn and winter. As to the evening and night-time wavelengths, these have some rather complex seasonal variations, but also a tendency to change towards a longer wavelength at the end of the year than at the beginning.

Thus it is probable that at the beginning of 1960 the shortest wavelengths – such as are being used at present – will be of the most use, but that, from the summer onwards there will be a definite tendency for the next longer wavelengths to be best, at least over parts of the daily periods during which the shorter wavelengths are being used at present.

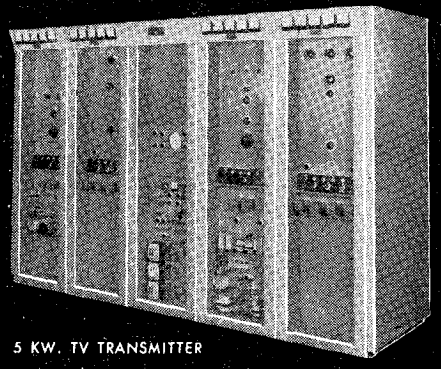
Shortwave conditions do not, of course, always remain uniform from day to day even over a short period of time, but are subject to periods of disturbance. At these times streams of corpuscles, which are emitted from eruptions on the sun, arrive in the earth's vicinity and, passing within the ionosphere, they upset its electronic structure and so impair its properties as a reflector of short waves. At the same time they cause displays of the polar aurorae and disturbances to the earth's magnetic field. During such periods, therefore, radio reception over long distances may fall below its normal standard, and, though it cannot be restored to normal by any action on the part either of the listener or the broadcasting authority, there is the possibility that, as a temporary measure, better reception may be obtained on a somewhat longer wavelength than the one on which it is normally obtained.

Continued page 12

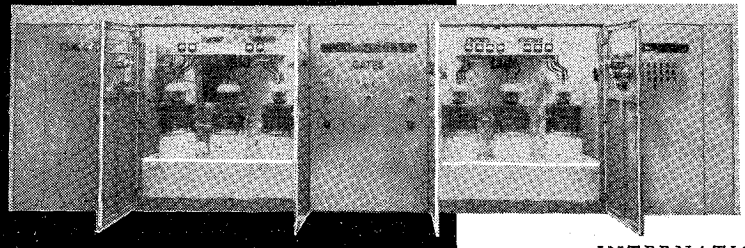


5 KW. FM TRANSMITTER

DUAL CHANNEL CONSOLE



5 KW. TV TRANSMITTER



50 KW. AM TRANSMITTER

GATES BROADCASTING EQUIPMENT

GATES is the largest supplier of AM radio broadcasting equipment in the U.S.A. The prime reason for GATES' popularity everywhere, is that while maintaining the highest standards of Quality, GATES equipment is always competitively priced—and equally important, costs less to install and to operate. Why not write today for descriptive literature and engineering data on this modern GATES equipment.

A full line of AM &.FM broadcasting, television and communication transmitters from 250 watts to 50 kw.

● Speech Input Equipment • Transmitter Control Consoles • Master Control Consoles • Speech Input Consoles • Plug-In Preamplifiers • General Purpose Consoles • Transcription Turntables • Mobile Sound Effects Console • Automatic Programming Equipment.

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Kringkastinghuset – Norsk Rikskringkasting – Oslo

Broadcastinghouse – Norwegian Broadcasting Corporation

SHORTWAVE *continued from page 8.*

Table which shows the best wavelengths for the different periods.

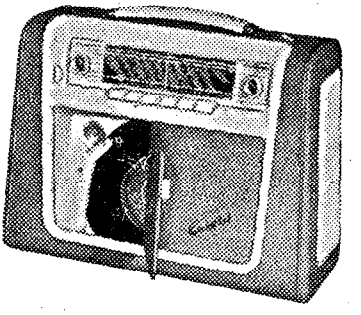
Circuit	Months	Period GMT	mb	Period GMT	mb	Period GMT	mb
Europe/North America (and vice versa)	Jan/Feb	00.00–06.00	31	12.00–19.00	11	21.00–23.00	25
	Mar/Apr	00.00–06.00	25	12.00–21.00	11	21.00–24.00	19
	May/Aug	00.00–06.00	25	10.00–16.00	19	16.00–23.00	16
	Sep/Oct	00.00–06.00	31	12.00–21.00	13	21.00–24.00	25
	Nov/Dec	00.00–06.00	31	12.00–19.00	13	21.00–23.00	31
Europe/South America (and vice versa)	Jan/Feb	00.00–06.00	25	10.00–18.00	11	20.00–23.00	16
	Mar/Apr	00.00–06.00	19	10.00–20.00	11	20.00–23.00	13
	May/Aug	00.00–06.00	19	12.00–22.00	13	22.00–24.00	16
	Sep/Oct	00.00–06.00	19	10.00–20.00	11	20.00–23.00	16
	Nov/Dec	00.00–06.00	25	10.00–18.00	11	20.00–23.00	19
Europe/South Africa (and vice versa)	Jan/Feb	00.00–04.00	25	08.00–17.00	11	20.00–24.00	16
	Mar/Apr	00.00–04.00	19	07.00–19.00	11	19.00–24.00	16
	May/Aug	00.00–04.00	25	07.00–19.00	13	19.00–24.00	16
	Sep/Oct	00.00–04.00	19	07.00–19.00	11	19.00–24.00	16
	Nov/Dec	00.00–04.00	25	08.00–17.00	11	20.00–24.00	19

Combi-Star

A Combination 4 - Band AM Receiver and 45 R. P. M. Record Player

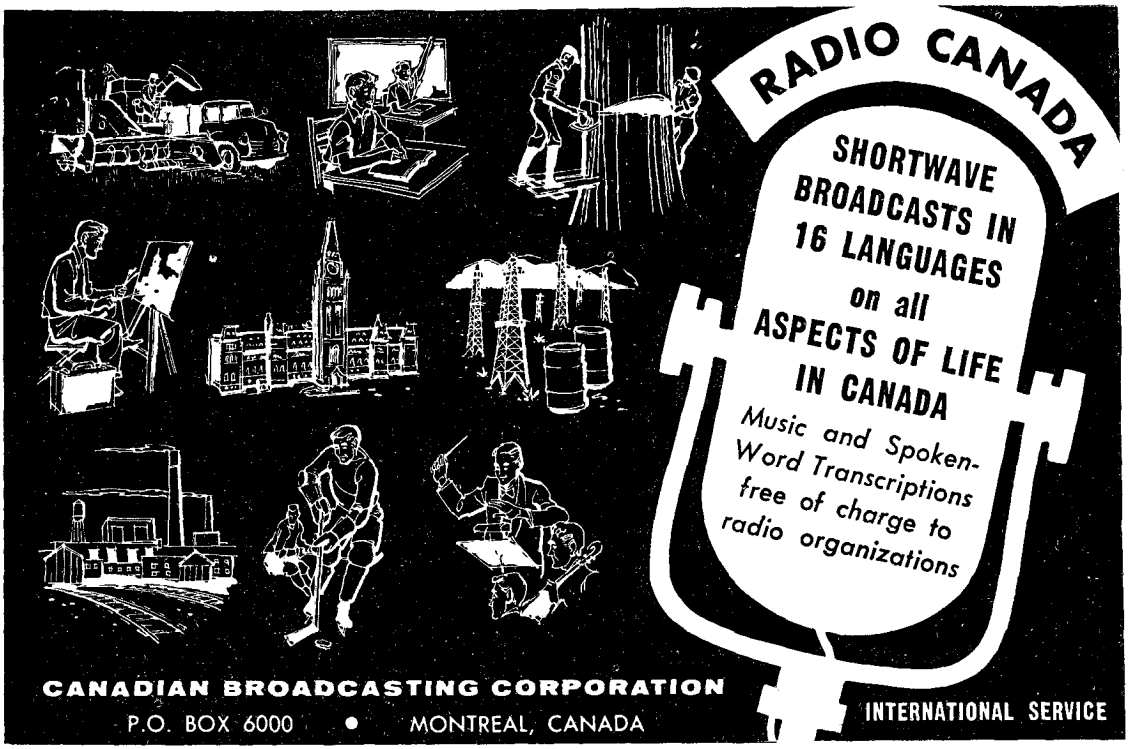
TRANSISTORIZED

4 wave bands
16 – 2000 meters
Built-in aerial
Battery – operated
7 transistors and 2 diodes
Push-button system
Non-breakable dial
Smart and handy
Supreme tone
Always ready for use



RADIONETTE

Radio's first name in Norway


RADIO CANADA
SHORTWAVE BROADCASTS IN 16 LANGUAGES on all ASPECTS OF LIFE IN CANADA
Music and Spoken-Word Transcriptions free of charge to radio organizations
CANADIAN BROADCASTING CORPORATION
P.O. BOX 6000 • MONTREAL, CANADA
INTERNATIONAL SERVICE

FREQUENCY BANDS ALLOCATED TO BROADCASTING, TELEVISION AND AMATEURS

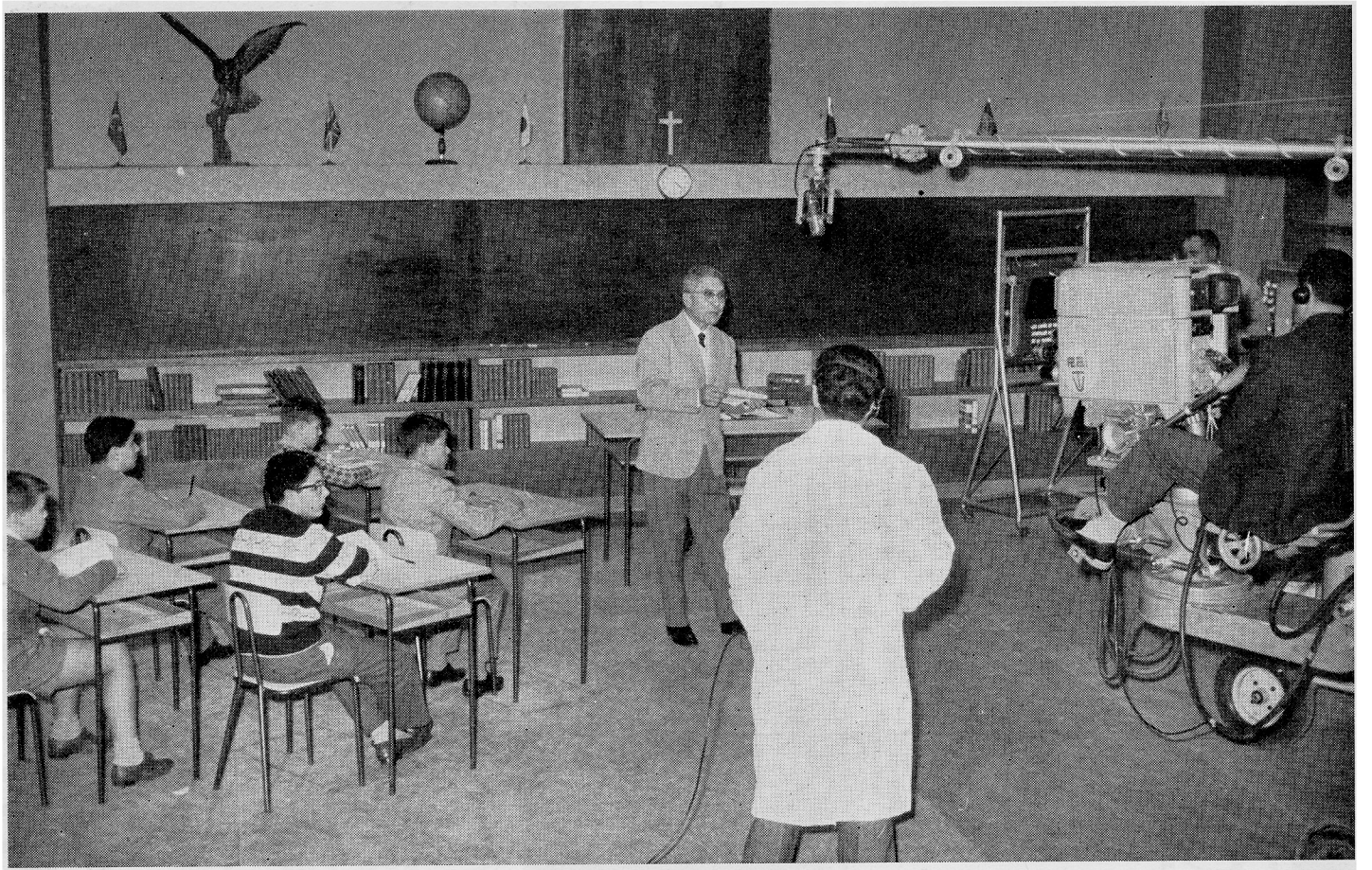
The table below is based upon the Atlantic City Radio Regulations. For bands between 3 and 27,5 mc/s the present situation differs a little from the table in some cases. Some bands are shared with other services. Region 1: Europe, U.S.S.R. in Asia, Africa. Region 2: N. and S. America, Northeast Pacific. Region 3: Asia exc. U.S.S.R., Australia, part of Pacific.

Abbreviations:
BC: Broadcasting (AM sound) – BC(trop): Broadcasting (AM sound, tropical zones) – BC(FM): Broadcasting (FM sound) – BC(TV): Broadcasting (Television) – AMAT: Amateurs

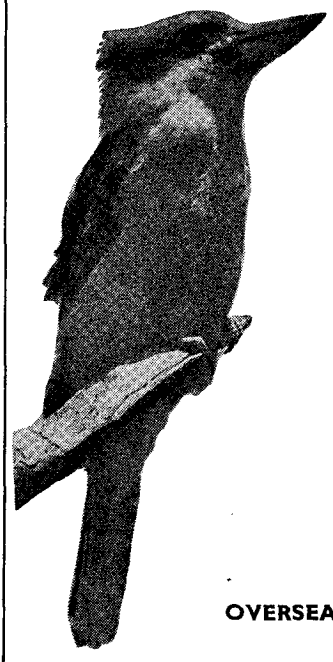
	Region 1 kc/s	Region 2 kc/s	Region 3 kc/s
BC	150–285		
BC	525–1605	535–1605	535–1605
AMAT		1800–2000	1800–2000
BC(trop)	2300–2498	2300–2495	2300–2495
BC(trop)	3200–3400	3200–3400	3200–3400
AMAT	3500–3800	3500–4000	3500–3900
BC	3950–4000		3900–4000
BC(trop)	4750–5060	4750–5060	4750–5060
BC	5950–6200	5950–6200	5950–6200
AMAT	7000–7150	7000–7300	7000–7150
BC	7100–7300		7100–7300
BC	9500–9775	9500–9775	9500–9775
BC	11700–11975	11700–11975	11700–11975
AMAT	14000–14350	14000–14350	14000–14350
BC	15100–15450	15100–15450	15100–15450
BC	17700–17900	17700–17900	17700–17900
AMAT	21000–21450	21000–21450	21000–21450
BC	21450–21750	21450–21750	21450–21750
BC	25600–26100	25600–26100	25600–26100
AMAT	28000–29700	28000–29700	28000–29700

	Region 1 mc/s	Region 2 mc/s	Region 3 mc/s
BC(TV)	41–68	44–50	44–50
AMAT		50–54	50–54
BC(TV)		54–72	54–68
BC(TV)		76–88	
BC(FM)	87,5–100	88–108	87–108
AMAT	144–146	144–148	144–148
BC(TV)	174–216	174–216	170–200
AMAT		220–225	
AMAT	420–460	420–450	420–460
BC(TV)	470–585	470–940	470–585
BC(TV)	610–960		610–960
AMAT	1215–1300	1215–1300	1215–1300
AMAT	2300–2450	2300–2450	2300–2450
AMAT		3300–3500	3300–3900
AMAT	5650–5850	5650–5925	5650–5850
AMAT	10000–10500	10000–10500	10000–10500

RAI - RADIOTELEVISIONE ITALIANA



RAI-RADIOTELEVISIONE ITALIANA - Rome Studios: Broadcasting a lesson of "TELESCUOLA" (School by television)



RADIO AUSTRALIA

The friendly voice of the Southern Continent

On the air 21½ hours daily with shortwave transmissions directed to Asia, the British Isles and Europe, Canada and the United States of America, Africa, New Zealand and Pacific Islands.

The programmes are in English, French, Indonesian, Mandarin and Thai.

Radio Australia welcomes listeners' comments on programmes and reception. Shortwave listener reports are confirmed by verification card.

A 36-page programme booklet is available free upon request.

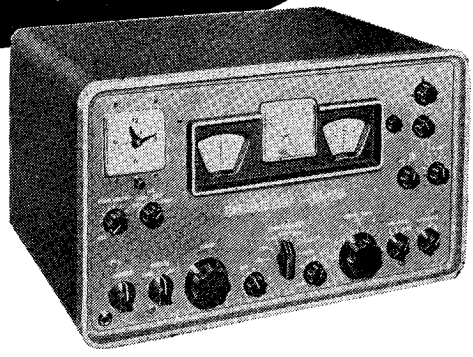
OVERSEAS SERVICE – AUSTRALIAN BROADCASTING COMMISSION
Post Office Box 428 G, - G. P. O., Melbourne,
AUSTRALIA

NUMBER OF LICENSES

issued or receivers estimated in use.

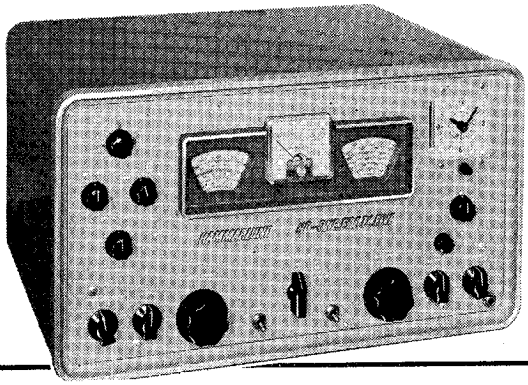
EUROPE	
Albania	25.000
Andorra	2.000
Austria	1.920.000
Belgium	2.500.000
Bulgaria	570.000
Czechoslovakia	3.094.192
Denmark	1.391.064
Finland	1.168.684
France	10.834.444
Germany	
Fed. Rep.	15.644.277
Dem. Rep.	5.500.000
Gibraltar	4.750
Gt. Britain	14.646.350
Greece	736.000
Greenland	4.500
Holland	3.055.000
Hungary	2.100.000
Iceland	45.000
Ireland	491.408
Italy	7.467.663
Luxembourg	93.160
Malta	46.500
Monaco	5.100
Norway	996.500
Poland	4.800.000
Portugal	675.000
Rumania	1.500.000
Spain	2.500.000
Sweden	2.670.000
Switzerland	1.364.193
USSR Eu.+Asia	31.000.000[1])
Yugoslavia	1.088.151
AFRICA	
Algeria	500.000
Angola	97.000
Bechuanaland	3.000
Belgian Congo	100.000
Cameroons	100.000
[1]) Eur.	8.400.000
Canary Islands	380.000
Cape Verde Isl.	1.400
Dahomey	4.000
Egypt	1.000.000
Ethiopia	14.000
French Congo	10.000
Ghana	101.000
Guinea	20.000
Guinea (Port.)	1.434
Guinea (Sp.)	1.300
Ivory Coast	31.500
Kenya	100.000
Liberia	10.000
Libya	200.000
Madagascar	55.000
Mauritius	30.387
Morocco	512.000
Mozambique	38.000
Niger	4.000
Nigeria	70.000
Rhodesia	100.000
Reunion	12.000
Sao Tomé	8.000
Senegal	120.000
Seychelles	4.000
Sierra Leone	5.000
Somaliland (It.)	22.000
Somaliland (Br.)	2.000
Somaliland (Fr.)	6.000
Sudan	10.000
Sudan (Fr.)	8.000
Tanganyika	50.000
Togo	10.000
Tunis	200.000
Uganda	70.000
Union of So. Afr.	810.000
Zanzibar	5.000
NEAR EAST	
Aden	32.000
Afghanistan	12.000
Bahrain	12.000
Cyprus	150.000
Iran	250.000
Iraq	100.000
Israel	400.000
Jordan	53.281
Kuwait	50.000
Lebanon	80.000
Saudi Arabia	21.000
Syria	500.000
Turkey	1.200.000
EAST	
Borneo (N. Br.)	9.500
Brunei (Brit.)	3.000
Burma	50.000
Cambodia	7.200
Ceylon	220.000
China, P. R.	3.500.000
Goa (Port)	2.000
Hong Kong	84.000
India	1.562.338
Indonesia	1.000.000
Japan	14.290.724
Korea	350.000
Laos	15.000
Macau	6.100
Malaya	198.000
Nepal	10.000
Pakistan	110.000
Philippines	500.000
Ryukyu Isl.	22.000
Sarawak	35.000
Singapore	91.696
Taiwan	430.000
Thailand	250.000
Viet-Nam, Rep.	120.000
PACIFIC	
Australia	2.265.530
Fiji	20.000
Hawaii	455.000
New Caledonia	5.000
New Zealand	567.258
Samoa	4.000
Tahiti	10.000
AMERICA, NORTH	
Canada	7.600.000
Mexico	2.800.000
Puerto Rico	1.400.000
United States	150.000.000
Virgin Islands	5.000
AMERICA, CENTRAL	
Bahamas	16.000
Barbados	20.000
Bermuda	17.000
Costa Rica	75.000
Cuba	900.000
Dominican Rep.	100.000
El Salvador	40.000
Guadeloupe	2.800
Guatemala	36.000
Haiti	20.000
Honduras (Br.)	10.000
Honduras (Rep.)	45.000
Jamaica	125.000
Leeward Isl.	5.000
Martinique	10.000
Netherl. Ant.	41.000
Nicaragua	30.000
Panama	130.000
Trinidad	60.000
Windward Isl.	20.000
AMERICA, SOUTH	
Argentina	3.350.000
Bolivia	250.000
Brazil	4.000.000
Chile	700.000
Colombia	3.000.000
Ecuador	120.000
Fr. Guiana	2.000
Br. Guiana	35.000
Paraguay	105.000
Peru	1.800.000
Surinam	12.000
Uruguay	1.200.000
Venezuela	260.000

YOUR BEST BUYS...
in Communications Receivers



HQ-180

Entirely NEW, general coverage receiver offers optimum SSB reception. Continuously tunable from 540 KCS to 31 MCS.
A 17-tube, triple conversion superheterodyne circuit with automatic noise limiter.
Automatically adjusts audio response to fit receiving conditions.



HQ-145

Unparalleled value! Compare the HQ-145 with other receivers — and nowhere will you find a general-coverage receiver offering the performance or built-in quality of this unit. An 11-tube superheterodyne featuring dual conversion. Continuously tunable from 540 KCS to 30 MCS in 4 bands. Automatic noise limiter. Both crystal filter and notch filter for unlimited tuning techniques.

HQ-170

The finest amateur receiver on the market.
A 17-tube, triple conversion superheterodyne circuit with automatic noise limiter. Linear product detector for CW and SSB reception plus normal diode AM detection. Automatically adjusts audio response to fit receiving conditions. Full dial coverage of 6, 10, 11, 20, 40, 80 and 160 meter amateur bands.

Established 1910

Write today for full details and illustrated literature on these and other Hammarlund Communications Receivers.

Hammarlund Manufacturing Company, Inc.

International Division: 13 East 40th Street, New York 16, N. Y.

WORLD TIME IN ALL COUNTRIES

DIFFERENCE BETWEEN LOCAL TIME AND GREENWICH MEAN TIME

The differences marked + indicate the number of hours ahead of G. M. T. Differences marked ÷ indicate number of hours behind G. M. T.

	Normal clock Time	Summer Time
Aden	+3	+3
Afghanistan	+4½	+4½
Alaska[1]	÷8	÷8
Albania	+1	+1
Algeria	+1	+1
Andorra	+1	+1
Angola	+1	+1
Argentina	÷3	÷3
Australia		
a) Victoria		
New South Wales, Queensland, Tasmania, (Brisbane, Melbourne, Sydney)	+10	+10
b) N. Territory		
S. Australia	+9½	+9½
c) W. Australia	+8	+8
Austria	+1	+1
Azores	÷2	÷1 1/4-1/10
Bahamas	÷5	÷5
Bahrain	+4	+4
Barbados(W.I.)	÷4	÷4
Bechuanaland	+2	+2
Belgian Congo		
Leopoldville	+1	+1
Elisabethville	+2	+2
Stanleyville	+2	+2
Belgium	+1	+1
Bermuda	÷4	÷4
Bolivia	÷4	÷4
Borneo, British North	+8	+8
Brazil		
a) Eastern and Coastal. (Manaos)	÷3 ÷4	÷2 ÷3
Brunei, No. Borneo	+8	+8
Bulgaria	+2	+2
Burma	+6½	+6½
Cambodia	+7	+7
Cameroon, Fr.	+1	+1
Canada		25/4-25/9
a) New Foundland	÷3½	÷2½
b) Atlantic (Labrador, Nova Scotia, Quebec)*	÷4	÷3
c) Eastern (Ontario)	÷5	÷4
d) Central (Manitoba)	÷6	÷5
e) Mountain (Alberta)	÷7	÷6
f) Pacific (Br. Columbia)	÷8	÷7
g) Yukon	÷9	÷8
Canary Islands	GMT	GMT
Canton Islands	÷11	÷11
Cap Verde Isl.	÷2	÷2
Central African Rep.	+1	+1
Ceylon	+5½	+5½
Chatham Isl.	+12¾	+12¾
Chile	÷4	÷4
China		
Peoples Rep.	+8	+8
Taiwan	+8	+9 (1/4-30/9)
Christmas Isl.	÷9	÷9
Colombia	÷5	÷5
Comoro Isl.	+3	+3
Cook Isl.	÷10½	÷10½
Costa Rica	÷6	÷6
Cuba (W.I.)	÷5	÷5
Curacao	÷4½	÷4½
Cyprus	+2	+2
Czechoslovakia	+1	+1
Dahomey	+1	+1
Denmark	+1	+1
Dominican R.	÷5	÷5
Ecuador	÷5	÷5
Egypt	+2	+3 1/5-30/9
Ellice Island	+12	+12
El Salvador	÷6	÷6
Eritrea	+3	+3
Ethiopia	+3	+3
Falkland Islands	÷4	÷4
Fiji Islands	+12	+12
Finland	+2	+2
France	+1	+1
French Congo	+1	+1
French West Africa (Senegal)	GMT	GMT
Gabon	+1	+1
Gambia	GMT	GMT
Germany	+1	+1
Gibraltar	GMT	GMT
Gilbert Isl.	+12	+12
Goa (Port India)	+5½	+5½
Ghana	GMT	GMT
Great Britain	GMT	+1** 1/4-1/10
Greece	+2	+2
Greenland		
Thule area	÷4	÷4
Angmagsalik W. Coast exc. Thule	÷3	÷3
Guadeloupe	÷4	÷4
Guam	+10	+10
Guatemala	÷6	÷6
Guiana (British)	÷3¾	÷3¾
Guiana (Dutch)	÷3.40	÷3.40
Guiana (French)	÷4	÷4
Guinea	GMT	GMT
Guinea (Port.)	÷1	÷1
Guinea (Sp.)	+1	+1
Haiti (W.I.)	÷5	÷5
Hawaiian Isl.	÷10	÷10
Holland	+1	+1
Honduras(Rep.)	÷6	÷5½
Honduras(Brit.)	÷6	÷6
Hong Kong	+8	+9 1/4-31/10
Hungary	+1	+1
Iceland	÷1	GMT 3/4-31/10
India	+5½	+5½
Indonesia		
a) North Sumatra	+6½	+6½
b) South	+7	+7
c) Java, Borneo, Bali	+7½	+7½
d) Celebes	+8	+8
e) Molucca Isl.	+8	+8
Iran (Persia)	+3½	+3½
Iraq	+3	+3
Ireland (Eire)	GMT	+1 15/4-15/10
Israel	+2	+2 1/6-15/9
Italy	+1	+1
Ivory Coast	GMT	GMT
Jamaica (W.I.)	÷5	÷5
Japan	+9	+9
Johnston Isl.	÷11	÷11
Jordan	+2	+2
Kenya	+3	+3 4/5-7/9
Korea, Rep.	+8½	+9½
Korea, P.D.Rep.	+9	+9
Kuwait	+3	+3
Laos	+7	+7
Lebanon	+2	+2
Leeward Isl.	÷4	÷4
Liberia	÷¾	÷¾
Libya	+2	+2
Luxembourg	+1	+1
Macau	+8	+9 1/5-1/10
Madagascar	+3	+3
Madeira	÷1	GMT 1/4-1/10
Malaya	+7½	+7½
Malta	+1	+1
Marshall Isl.	+12	+12
Martinique	÷4	÷4
Mauretania	GMT	GMT
Mauritius	+4	+4
Mexico[3]	÷6	÷6
Midway	÷11	÷11
Monaco	+1	+1
Mongolia(Outer)	+8	+8
Morocco	GMT	GMT
Mozambique	+2	+2
Nepal	+5.40	+5.40
Neth. Antilles	÷4½	÷4½
New Caledonia	+11	+11
New Guinea (Dutch)	+9½	+9½
New Guinea (Australian)	+10	+10
New Hebrides	+11	+11
New Zealand	+12	+12
Nicaragua	÷6	÷6
Niger	+1	+1
Nigeria	+1	+1
Norfolk Isl.	+11½	+11½
Norway	+1	+1
Pakistan		15/8-20/9
a) West	+5	+5
b) East	+6	+6
Panama	÷5	÷5
Paraguay	÷4	÷4
Peru	÷5	÷5
Philippine Isl.	+8	+8
Poland	+1	+2
Portugal	GMT	+1 1/4-1/10
Puert.Rico(W.I.)	÷4	÷4
Reunion	+4	+4
Rhodesia		
(No.+So.)	+2	+2
Rumania	+2	+2
Ryukyu Isl.	+9	+9
Samoa Isl.	÷11	÷11
S. Pierre	÷4	÷3
S. Tomé	GMT	+1
Sarawak	+8	+8
Saudi Arabia	+3	+3
Senegal	GMT	GMT
Seychelles Isl.	+4	+4
Sierra Leone	GMT	GMT
Singapore	+7½	+7½
Solomon Isl.	+11	+11
Somaliland	+3	+3
Spain	+1	+1
Sudan	+2	+2
Sudan (French)	GMT	GMT
Surinam	÷3.40	÷3.40
Sweden	+1	+1
Switzerland	+1	+1
Syria	+2	+2
Tanganyika	+3	+3
Tangier	GMT	GMT
Tahiti	÷10	÷10
Tasmania	+10	+10
Tchad	+1	+1
Thailand	+7	+7
Tibet	+6	+6
Togo	GMT	GMT
Trinidad(B.W.I.)	÷4	÷4
Tunesia	+1	+1
Turkey	+2	+2
Uganda	+3	+3
Union of So. Af.	+2	+2
Upper Volta	GMT	GMT
Uruguay	÷3	÷3
U.S.S.R.		
Moscow, Leningrad	+3	+3
Baku	+4	+4
Sverdlovsk	+5	+5
Tashkent	+6	+6
Novosibirsk	+7	+7
Irkutsk	+8	+8
Yakutsk	+9	+9
Khabarovsk	+10	+10
Petropavlovsk	+11	+11
U.S.A.		
a) Eastern Zone	÷5	÷4 1/5-1/10
b) Central Zone	÷6	÷5 1/5-1/10
c) Mountain Zone	÷7	÷6
d) Pacific Zone	÷8	÷7 1/5-1/10
Vatican	+1	+1
Venezuela	÷4½	÷4½
Vietnam	+7	+7
Virgin Isl.	÷4	÷4
Windward Isl.	÷4	÷4
Yemen	+3	+3
Yugoslavia	+1	+1
Zanzibar	+3	+3

* exc. the watch shore and Gaspé regions: 5 h. behind GMT.

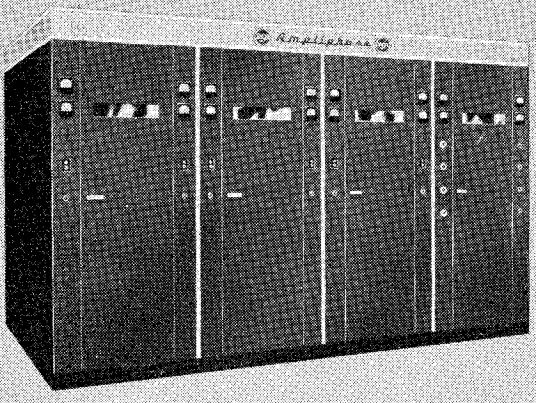
** Summer Time in Britain starts at 02 hours GMT after the 3rd Sat. in Apr. (or 2nd Sat. if 3rd is Easter weekend) and runs until 02 h. GMT after the first Sat. in Oct.

1) a) Ketchikan to Skagway ÷8
b) Skagway to 141°W. long ÷9
c) 141°W. long to 162°W. long ÷10
d) 162°W. long to Westernmost point (incl. Aleutians) ÷11

2) Generally ÷6
Lower Cal., Pa. coast ÷7
No. part ÷8

World-Famous for Proven Reliability and Performance

RCA SHORT-WAVE and MEDIUM-WAVE TRANSMITTERS



BTA-50G, the new RCA 50 KW AM "Ampliphase" transmitter, represents the most significant step since RCA introduced high-level modulation. It occupies half the floor space required by other 50 KW transmitters, cuts installation and operating costs, eliminates need for underfloor trenches, costly water cooling systems or external blowers. All components are easily accessible and can be quickly replaced.

Since its formation in 1919, Radio Corporation of America has been in the forefront of major advances in radio communications of every type. In virtually every corner of the globe RCA short-wave and medium-wave broadcast transmitters are providing day-in, day-out dependability under all extremes of climatic and operational conditions.

As the producer of the finest in transmitters, its experience in the radio industry is unparalleled.

At its research and engineering laboratories, RCA engineers conceive and develop the most advanced and improved circuits and mechanical components.

New RCA electron tubes and semi-conductors are being developed and produced to meet the changing needs of the entire industry, as well as specific RCA equipment.

For over a quarter of a century, RCA scientists have provided a constant flow of technical knowledge to the expanding radio and electronic industry ...and products, facilities, and services to the world.

The RCA monogram is universally recognized as a symbol of the radio age, that has brought new pleasures in entertainment, new techniques of communication, and new opportunities to millions of people throughout the world. It is a mark of quality and superior craftsmanship.

RCA broadcast transmitters have proven their economy and dependability in many years of long service for many types of broadcasters, such as the National Broadcasting Company network, the Finnish Broadcasting Company, Radio Pakistan, Radio Istanbul, and hundreds of private broadcasters.

RCA short-wave communications transmitters are preferred by many governmental and private communications organizations. Transmitters up to 1.2 megawatts of output have been built by RCA, and are used around the world to provide every type of radio communications.

For the best investment in short and medium-wave transmitters see your RCA Distributor or write to Dept. ...N-3 RCA International Division, Radio Corporation of America, 30 Rockefeller Plaza, New York 20, N.Y., U.S.A.

RCA INTERNATIONAL DIVISION
RADIO CORPORATION OF AMERICA
30 ROCKEFELLER PLAZA, NEW YORK 20, N. Y., U.S.A.

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THE DANISH INVENTION FROM 1887 STILL A LEADER IN THE WORLD MARKET

Hellesens make about 100 million dry batteries annually in 200 different, internationally demanded types. – The main part of the production is exported to no less than 72 countries all over the world. Hellesen's has gained worldwide renown as being the most reliable and most economic dry battery – a product of high quality and constant uniformity.

HELLESENS BATTERIER

TABLE OF ALLOCATION OF CALL SIGNS

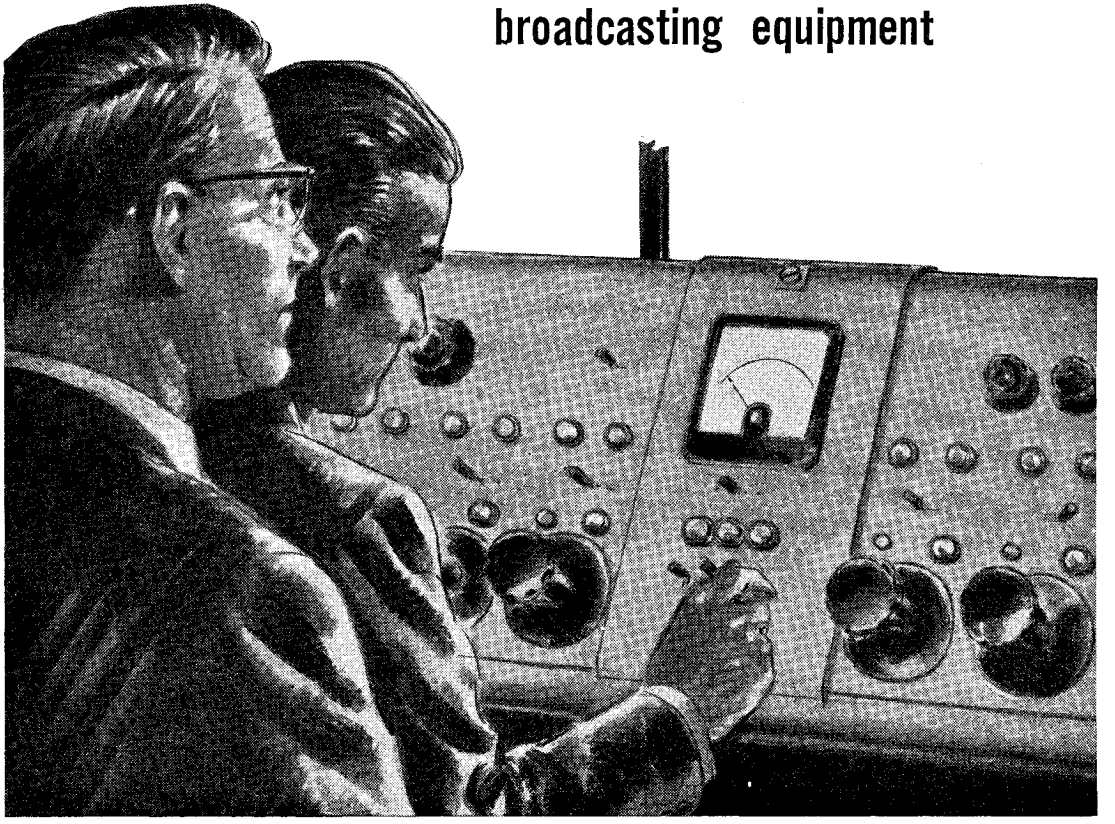
The first character or the first two characters of a call sign indicates the nationality of the station using it.

AAA–ALZ	U.S.A.
AMA–AOZ[1])	Spain
APA–ASZ	Pakistan
ATA–AWZ	India
AXA–AXZ	Australia
AYA–AZZ	Argentina
BAA–BZZ	China
CAA–CEZ	Chile
CFA–CKZ	Canada
CLA–CMZ	Cuba
CNA–CNZ	Morocco (French)
COA–COZ	Cuba
CPA–CPZ	Bolivia
CQA–CRZ	Portuguese Colonies
CSA–CUZ	Portugal
CVA–CXZ	Uruguay
CYA–CZZ	Canada
DAA–DMZ	Germany
DNA–DQZ	Belgian Congo
DRA–DTZ	Bielorussian S.S.R.
DUA–DZZ	Philippines
EAA–EHZ	Spain
EIA–EJZ	Ireland
EKA–EKZ	U.S.S.R.
ELA–ELZ	Liberia
EMA–EOZ	U.S.S.R.
EPA–EQZ	Iran
ERA–ERZ	U.S.S.R.
ESA–ESZ	Estonia
ETA–ETZ	Ethiopia
EUA–EZZ	U.S.S.R.
FAA–FZZ	France and Colonies
GAA–GZZ	United Kingdom
HAA–HAZ	Hungary
HBA–HBZ	Switzerland
HCA–HDZ	Ecuador
HEA–HEZ	Switzerland
HFA–HFZ	Poland
HGA–HGZ	Hungary
HHA–HHZ	Haiti
HIA–HIZ	Dominican Rep.
HJA–HKZ	Colombia
HLA–HMZ	Korea
HNA–HNZ	Iraq
HOA–HPZ	Panama
HQA–HRZ	Honduras
HSA–HSZ	Thailand
HTA–HTZ	Nicaragua
HUA–HUZ	El Salvador
HVA–HVZ	Vatican City State
HWA–HYZ	France and Colonies
HZA–HZZ	Saudi Arabia
IAA–IZZ	Italy and Colonies
JAA–JSZ	Japan
JTA–JVZ	Mongol. People's R.
JWA–JXZ	Norway
JYA–JYZ[1])	Jordan
JZA–JZZ[1])	Netherl. N. Guinea
KAA–KZZ	U.S.A.
LAA–LNZ	Norway
LOA–LWZ	Argentina
LXA–LXZ	Luxembourg
LYA–LYZ	Lithuania
LZA–LZZ	Bulgaria
MAA–MZZ	United Kingdom
NAA–NZZ	U.S.A.
OAA–OCZ	Peru
ODA–ODZ	Lebanon
OEA–OEZ	Austria
OFA–OJZ	Finland
OKA–OMZ	Czechoslovakia
ONA–OTZ	Belgium and Colonies
OUA–OZZ	Denmark
PAA–PIZ	Netherlands
PJA–PJZ	Netherlands Antilles
PKA–POZ	Indonesia
PPA–PYZ	Brazil
PZA–PZZ	Surinam
QAA–QZZ	(Service abbreviat.)
RAA–RZZ	U.S.S.R.
SAA–SMZ	Sweden
SNA–SRZ	Poland
SSA–SSM	Egypt
SSN–STZ[1])	Sudan
SUA–SUZ	Egypt
SVA–SZZ	Greece
TAA–TCZ	Turkey
TDA–TDZ	Guatemala
TEA–TEZ	Costa Rica
TFA–TFZ	Iceland
TGA–TGZ	Guatemala
THA–THZ	France and Colonies
TIA–TIZ	Costa Rica
TJA–TRZ	France and Colonies
TSA–TSM	Tunisia
TSN–TZZ	France and Colonies
UAA–UQZ	U.S.S.R.
URA–UTZ	Ukrainian U.S.S.R.
UUA–UZZ	U.S.S.R.
VAA–VGZ	Canada
VHA–VNZ	Australia
VOA–VOZ	Canada
VPA–VSZ	British Colonies
VTA–VWZ	India
VXA–VYZ	Canada
VZA–VZZ	Australia
WAA–WZZ	U.S.A.
XAA–XIZ	Mexico
XJA–XOZ	Canada
XPA–XPZ	Denmark
XQA–XRZ	Chile
XSA–XSZ	China
XTA–XTZ	France and Colonies
XUA–XUZ[1])	Cambodia
XVA–XVZ[1])	Vietnam
XWA–XWZ[1])	Laos
XXA–XXZ	Portuguese Colonies
XYA–XZZ	Burma
YAA–YAZ	Afghanistan
YBA–YHZ	Indonesia
YIA–YIZ	Iraq
YJA–YJZ	New Hebrides
YKA–YKZ	Syrian Republic
YLA–YLZ	Latvia
YMA–YMZ	Turkey
YNA–YNZ	Nicaragua
YOA–YRZ	Roumania
YSA–YSZ	El Salvador
YTA–YUZ	Yugoslavia
YVA–YYZ	Venezuela
YZA–YZZ	Yugoslavia
ZAA–ZAZ	Albania
ZBA–ZJZ	British Colonies
ZKA–ZMZ	New Zealand
ZNA–ZOZ	British Colonies
ZPA–ZPZ	Paraguay
ZQA–ZQZ	British Colonies
ZRA–ZUZ	Union of S. Africa
ZVA–ZZZ	Brazil
2AA–2ZZ	United Kingdom
3AA–3AZ	Monaco
3BA–3FZ	Canada
3GA–3GZ	Chile
3HA–3UZ	China
3VA–3VZ	Tunisia
3WA–3WZ[1])	Vietnam
3YA–3YZ	Norway
3ZA–3ZZ	Poland
4AA–4CZ	Mexico
4DA–4IZ	Philippines
4JA–4LZ	U.S.S.R.
4MA–4MZ	Venezuela
4NA–4OZ	Yugoslavia
4PA–4SZ	Ceylon
4TA–4TZ	Peru
4UA–4UZ	United Nations
4VA–4VZ	Haiti
4WA–4WZ	Yemen
4XA–4XZ[1])	Israel
4YA–4YZ[1])	Intern. Civil Aviation Organization
5AA–5AZ	Libya
5CA–5CZ[1])	Morocco (French)
9KA–9KZ[1])	Kuwait
5LA–5LZ[1])	Liberia
5MA–5MZ[1])	Liberia
5PA–5QZ[1])	Denmark
9AA–9AZ[1])	San-Marino
9NA–9NZ[1])	Nepal
9SA–9SZ[1])	Saar Territory

[1]) Provisionally

Marconi in Broadcasting

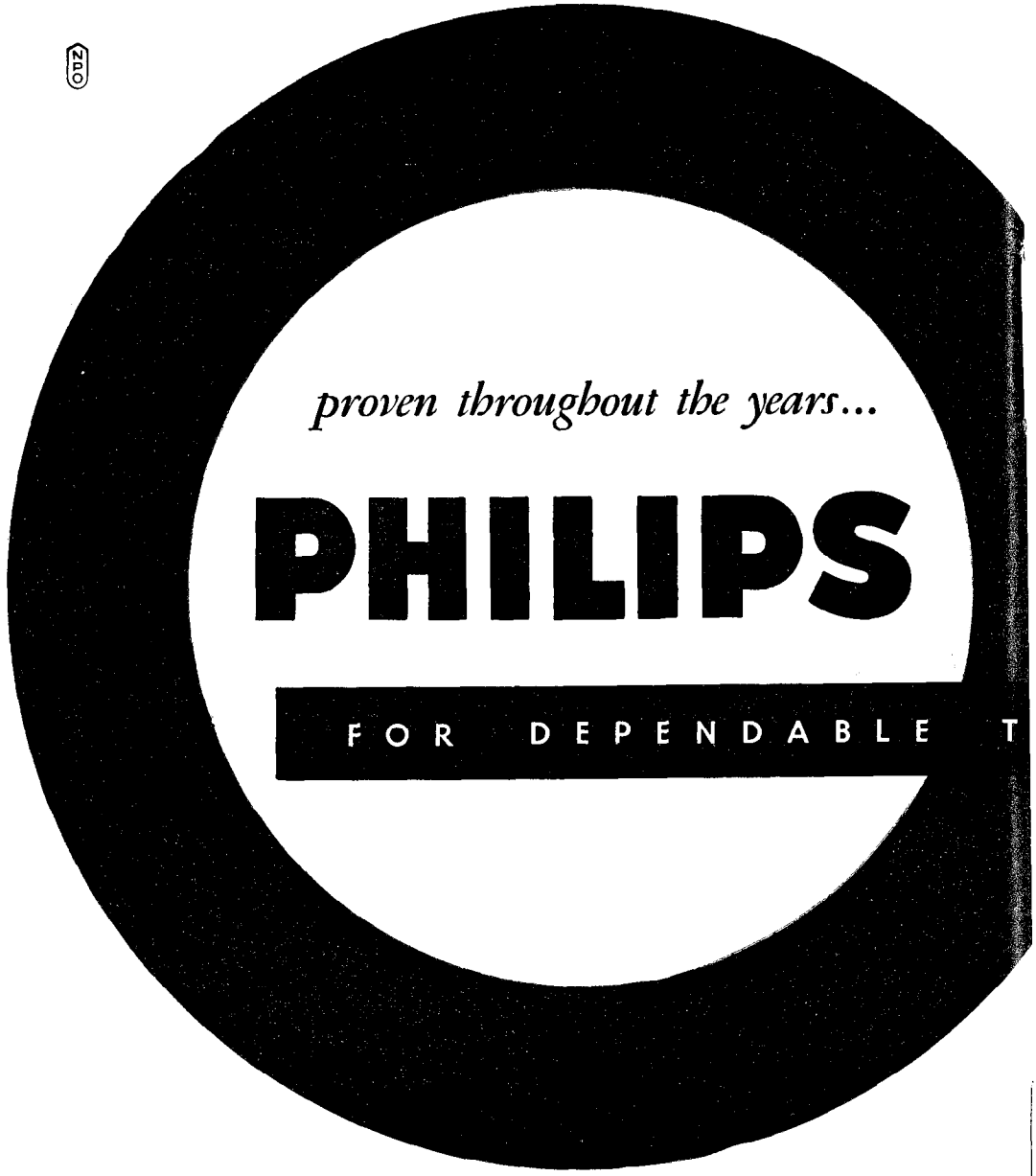
80 countries of the world rely on Marconi broadcasting equipment



MARCONI COMPLETE SOUND BROADCASTING SYSTEMS

MARCONI'S WIRELESS TELEGRAPH COMPANY LIMITED, CHELMSFORD, ESSEX, ENGLAND

M.3



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N.V. PHILIPS' TELECOMMUNICATIE INDUSTRIE · HILVERSUM · HOLLA

TRANSMITTING EQUIPMENT:

Broadcast transmitters (AM and FM).
Communication transmitters
V.H.F., U.H.F., S.H.F. Link systems
Aerial systems
H.F. and V.H.F. marine radio transmitters
Mobile and portable radio stations
TV transmitting and relay equipment
Instantuners

RECEIVING EQUIPMENT:

Communication receivers
H.F. and V.H.F. marine radio receivers
Radio receivers (AM and FM)
Dry battery radio receivers
Radiogramophones (Monophonic and Stereophonic)
Car radios
Transistor radios
Pocket and portable radios
Clock radios
Television receivers 17", 21", 24"
for all transmission systems

R A N S M I S S I O N A N D R E C E P T I O N !

STUDIO AND SOUND EQUIPMENT:

All types of microphones, loudspeakers,
amplifiers, tape recorders
for amateur, semi-professional and
professional purposes

Audio and Video equipment for Broadcasting
and TV studios and for outside broadcasts

Colour Television equipment
for Studios and TV laboratories

MISCELLANEOUS:

Closed circuit television equipment
Large Screen TV equipment
Gramophone records
Record players and changers
Electrophones
High Fidelity equipment
Stereo reproduction equipment
Pick-up heads
Lighting equipment for studios and general purposes
Measuring equipment for radio and TV Service

est electronic industry !

and agencies in all countries of the world)

ND

TABLE OF THE MOST SUITABLE METRE BANDS

FOR BEST SHORT-WAVE RECEPTION IN EVERY PART OF THE WORLD AT VARIOUS TIMES OF THE DAY IN 1960.

Note: The figures in the table below are calculated for a specific point within each area as indicated on the chart below. The area numbers on the chart refer to the numbers indicated in the left-hand column of the table.

The figures in the table can be regarded only as average figures, as conditions will vary considerably from time to time due to irregularities in the ionosphere.

Example: A listener located in the eastern part of No. Am. (area 3) wishes to hear a station in the so. part of Af. (area 8) on a Jan. evening (21 local time). By following the horizontal column of figures starting at No. Am., East, on the left until it meets the vertical columns under the area no. 8 in the section for the months Nov., Dec., Jan. and Feb. on the right, he will come to the figure 25. This means that the 25 m. b. is the most suitable for listening to the required station at that time.

The listener's area	Local time	Area of the transmitting station																																	
		May June July August											March April Sept. October											Nov. Dec. Jan. Feb.											
		1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11
1. Scandinavia	9	25	25	25	25	16	25	16	16	16	16	16	31	25	25	25	19	25	13	13	13	13	13	25	16	31	25	31	25	13	13	13	13	13
	15	25	25	16	25	16	13	13	16	16	16	19	31	19	16	19	16	13	13	13	13	16	16	16	16	13	31	13	13	13	13	16	31	25
	21	25	25	16	19	16	13	16	13	13	16	25	31	25	16	16	13	19	16	16	16	25	19	41	49	25	25	25	25	25	31	31	31	31
2. Central-Europe	9	25	19	25	19	16	25	13	13	13	16	16	25	25	25	25	25	19	13	13	13	13	13	16	16	31	31	31	13	13	13	13	13	13
	15	25	25	16	16	13	13	13	13	13	16	25	19	19	13	16	13	13	13	13	13	13	13	16	16	13	13	13	13	13	13	13	25	13
	21	25	25	16	16	13	13	16	13	13	16	25	25	31	13	19	16	19	16	13	19	16	16	49	41	25	19	19	25	31	19	31	31	31
3. North America, East	9	16	25	31	16	13	13	13	13	16	19	19	16	13	31	16	13	13	13	13	16	19	16	13	13	31	16	16	13	13	13	16	41	13
	15	16	16	31	13	13	13	13	13	16	16	13	16	13	25	13	13	13	13	13	19	16	19	25	25	16	13	13	13	13	13	25	25	16
	21	16	16	31	13	16	13	16	16	16	16	13	25	25	31	13	16	19	16	19	19	16	19	31	41	31	13	25	25	25	25	25	25	13	19
4. North America, West	9	25	16	13	25	16	13	16	19	16	16	31	16	16	13	16	13	13	16	13	16	19	25	19	13	13	13	13	13	25	13	31	31	16
	15	19	16	13	19	16	13	16	25	16	16	13	19	25	13	13	13	13	13	13	19	13	13	25	41	13	13	13	13	13	13	31	13	13
	21	25	19	13	19	16	16	16	41	13	16	13	19	31	16	25	16	19	19	19	16	13	13	25	41	13	25	25	19	25	25	25	25	19
5. South America, North	9	16	13	13	16	19	13	13	13	13	13	13	16	13	13	13	16	13	13	13	13	16	19	13	13	13	16	13	13	13	13	19	31	16
	15	16	13	13	13	19	13	13	16	13	16	16	13	16	13	13	16	13	13	13	16	13	13	19	19	13	13	13	13	13	13	31	31	13
	21	16	13	16	13	19	13	16	25	13	13	13	25	25	16	13	19	13	13	25	16	13	13	41	41	25	16	19	13	25	16	25	16	13
6. South America, South	9	13	13	13	19	13	13	13	13	13	25	25	13	13	13	25	13	16	13	13	13	25	19	13	13	13	25	13	13	13	13	13	25	13
	15	13	13	13	13	13	13	13	13	13	13	25	13	16	13	13	13	16	13	13	13	19	19	13	19	13	13	13	13	13	13	13	25	16
	21	16	16	13	13	13	16	13	31	25	13	25	25	25	16	13	13	19	13	19	25	13	19	31	31	19	13	13	16	13	13	19	13	13
7. Africa, North	9	16	13	19	19	16	19	25	13	13	13	13	13	13	25	25	16	16	13	13	13	13	13	13	13	25	25	25	13	13	13	13	13	13
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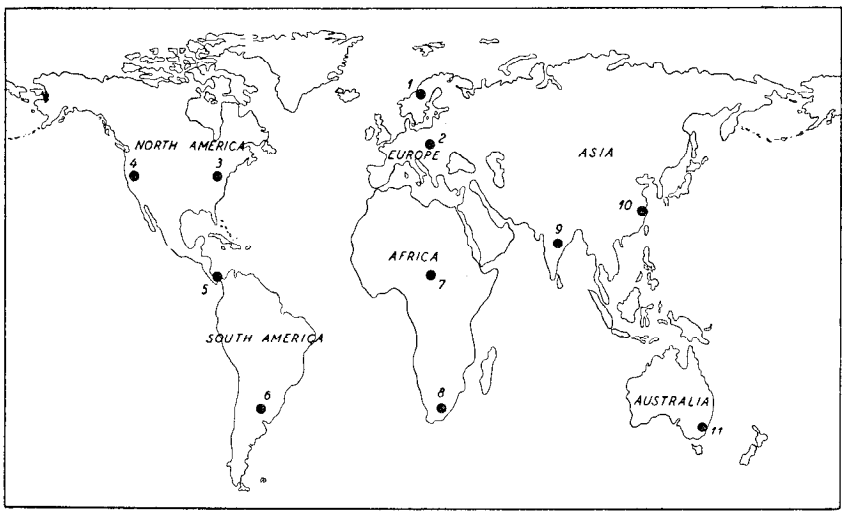
8. Africa, South	9	25	13	16	25	25	31	13	19	13	13	13	13	13	19	25	13	19	13	16	13	13	13	13	13	25	19	13	13	16	13	13	16	
	15	16	13	13	19	13	13	13	19	13	13	16	13	13	13	16	13	13	13	13	13	13	16	13	13	13	25	13	13	13	13	13	13	16
	21	16	13	13	16	13	19	13	31	13	13	25	16	13	13	13	13	16	13	19	13	13	25	31	19	13	13	13	13	13	19	13	13	25
9. South Asia	9	16	16	16	13	13	25	13	19	16	13	13	16	25	19	13	16	19	19	16	31	13	13	31	41	25	19	25	16	25	13	13	13	13
	15	16	13	25	13	16	19	13	13	13	13	13	13	13	25	25	19	16	13	13	19	13	13	13	13	25	25	25	13	13	13	13	13	13
	21	16	13	16	16	13	13	13	13	13	13	19	13	13	16	19	13	13	13	13	16	13	16	19	13	16	25	25	13	13	13	13	13	13
10. East Asia	9	19	16	16	16	13	13	13	16	13	19	13	25	19	13	13	13	13	19	16	19	13	13	31	31	13	13	16	13	25	16	25	19	13
	15	16	13	19	16	13	25	13	13	13	19	13	16	13	19	13	16	19	13	13	13	13	13	16	13	25	25	25	13	13	13	13	13	13
	21	16	16	25	16	13	25	13	13	13	19	13	13	13	25	25	19	25	13	13	13	13	13	16	16	41	31	31	25	13	13	13	16	13
11. Australia	9	19	16	13	13	13	19	13	25	19	13	19	25	16	13	13	13	16	16	25	19	13	19	31	31	16	13	13	13	13	19	19	13	16
	15	16	13	16	13	13	31	13	16	13	13	19	16	13	19	13	13	19	13	13	13	13	19	16	13	25	19	13	13	13	16	13	13	16
	21	16	16	19	31	13	31	13	13	13	13	31	13	13	13	19	16	19	13	13	13	13	25	13	13	16	31	19	13	13	16	13	13	16



Somewhat higher wavelengths must probably be reckoned with towards the end of year 1960. The reason for this uncertainty must be sought in the fact that the recent sunspot maximum was reached after an unprecedented steep rise over about one year, so one cannot exclude the possibility that the sunspot number will show an equally unusual decrease within the next year.

1. Scandinavia
2. Central-Europe
3. North America, East
4. North America, West
5. South America, North
6. South America, South
7. Africa, North
8. Africa, South
9. South Asia
10. East Asia
11. Australia

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BROADCASTING AND TELEVISION ORGANIZATIONS

EUROPEAN BROADCASTING UNION (E.B.U)
UNION EUROPEENNE de RADIODIFFUSION (U.E.R.)
EUROVISION

Seat and Administrative Office: 1, rue de Varembé, GENEVE.
Technical Centre: 32, av. Albert Lancaster, BRUXELLES
Monitoring Centre: Jurbise (Belgium).
International Coordination Centre for TV/Programmes exchanges (Eurovision): Palais de Justice, Bruxelles.
Administrative Council 1959–1960: President: Sir. Ian Jacob, Director General, The British Broadcasting Corporation.
Vice-President: E. Sundström (Finland), C. Chavanon (France).
Administrators: Representatives of the broadcasting organizations in: Austria, Denmark, Finland, France, Germany (Fed. Rep.), Italy, Belgium, Switzerland and United Kingdom.
Director of the Administrative Office and Secretary General: M. Ch. Gilliéron.
Director of The Technical Centre: M. Georges Hansen.
Active Members: The broadcasting organizations of: Austria, Belgium, Denmark, Finland, France, Germany (Bundesrepublik), Greece, Iceland, Israel, Ireland, Lebanon, Luxembourg, Monaco, Morocco, Tunesia, Norway, Netherlands, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom (British Broadcasting Corporation), Vatican City, Yugoslavia.
Associate Members: The broadcasting organizations of: Australia (ABC), Belgian Congo, Burma, Canada (CBC), Ceylon, Haiti, Japan, New Zealand, Pakistan, Portugal (RTP-Radiotelevisao Portuguesa), Union of South Africa, United Kingdom (I.T.A. and Independent Television Companies Association Ltd.), United States (US Information Agency, N.A.E.B., C.B.S., N.B.C., A.B.C., Broadcasting Foundation of America and N.E.T.R.C.).
Publications: E.B.U. Review – every month in English and French, published in two separate parts: A (Technical) and B (General and Legal). – Long and Medium waves reports (European Area). – Short wave reports.

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION – OIRT

Addr.: 15, Liebknechtova, Prague 16, Czechoslovakia. **Cable:** Interadif, Praha.

Nature: International organization dealing with practical and theoretical questions connected with broadcasting and television prgr's and technique and co-operation between broadcasting and television organizations.

Governing Body: General Assembly consisting of one representative for each active member.

ADMINISTRATIVE COUNCIL: Consisting of 7 to 13 members. Chairman for 1959/60: P. Kito, President of the Albanian Broadcasting Organization.
Vice-Chairmen for 1959/60: Representatives of the Radio and Television Organizations of the Byelorussian SSR and the Chinese P.R.
Members: Representatives of the Radio and Television Organizations of the P.R. of Bulgaria, Czechoslovak Republic, Hungarian P.R., PDR of Korea, and USSR.

MEMBERS: Radio and Television Organizations of: The PR of Albania, Byelorussian SSR, PR of Bulgaria, Chinese PR, Czechoslovak Republic, United Arab Republic/Egypt/, Estonian SSR, Finland, German Democratic Republic, Hungarian PR, Iraq, Korean People's Democratic Republic, Latvian SSR, Lithuanian SSR, Moldavian SSR, PR of Mongolia, PR of Poland, Rumanian PR, Ukrainian PR, Union of Soviet Socialist Republics, PDR of Vietnam.

Facilities: Administrative office and Technical Centre, Prague, Czechoslovakia.

Specialized Commissions: Technical Commission: Chairman A. V. Ivanov, USSR; Programme Commission: Chairman H. Werner, Polish P.R.; Television Commission: Chairman H. Adameck, German Democratic Republic.

Publications: Documentation and Information Bulletin in English, French, Russian and Chinese, issued every two month. Technical documentation and List of Broadcasting and Television stations in operation. Monthly OIRT Information, and quarterly Catalogues of prgr's suitable for exchange: a) radio, b) television.

Meetings: General Assembly every two years, Administrative Council every one year.
Relations with all important organizations active in the field of radio and television.

ASOCIACION INTERAMERICANA DE RADIODIFUSION (AIR):

AIR is an association of the broadcasting corporations of the American countries. Founded in 1946 it represents more than 4000 broadcasting and 400 television stations. Its purpose is to preserve free and stable broadcasting, promote cooperation between broadcasting corporations and the public authorities, to raise the cultural level of the peoples, to work for the preservation of freedom of utterance and instruction and a closer feeling of association between the private broadcasting corporations on the American Continent. AIR has energetically represented to the Argentine Government that all transmitters be immediately returned to private ownership. AIR has agreed with Sociedad Interamericana de Prensa about the revision of the so-called Panama Doctrine for the purpose of increasing the practical effectiveness of that pact and of making it a permanent means of defence for the preservation of democratic principle. AIR is recognized by the United Nations and collaborates with UNESCO, with the International Union of Telecommunications, with the organizations of the American States. AIR has subscribed to the "Panama Doctrine" in which the American Radio and Press declare themselves united against any attack on individual liberty and any restriction of the freedom of utterance. During the current year the institution has had intensive activity in defense of freedom of information in connection with events occurring in several countries.

The sixth General Meeting was held in October in Mexico City and important decisions were taken in regard to broadcasting legislation. AIR's President is the Uruguayan Broadcaster Sr. Raúl Fontaina, and the Director General, Sr. Julio Menadier Carrasco of Chile. The address of the President is Mercedes no. 973, Montevideo, Uruguay, and that of the Central Office, Casilla 10476, Santiago de Chile. **Cable:** AIR, Santiago, Chile.

UNESCO

(United Nations Educational, Scientific and Cultural Organization)
Radio Division, Department of Mass Communication.
Acting Chief: José Garza y de Garate.
Chief of English Production: Rex Keating.
Chief of French Production: Fernand Pouey.
Chief of Spanish Production: José Garza y de Garate.

BROADCASTING FOUNDATION OG AMERICA

The Broadcasting Foundation of America is organized as an educational corporation. Its object is to foment the exchange of Radio and Television programs of cultural and informative nature between the main stream of broadcasting in the United States, and the broadcasting stations and organizations of other countries. American radio station membership with BFA has grown to a present total of 180 stations broadcasting music and spoken word programs that enable the people of the United States to listen directly to the peoples and cultures of the rest of mankind. The number of countries willing and able to produce programs in English for BFA has been surprising.

The BFA is an associate member of EBU. It attends the annual OIR convention as an observer, and is represented at the Asian Broadcasting Meeting and UNESCO meetings on program exchange. It is the official American organization for selecting and presenting entries to the Prix Italia.

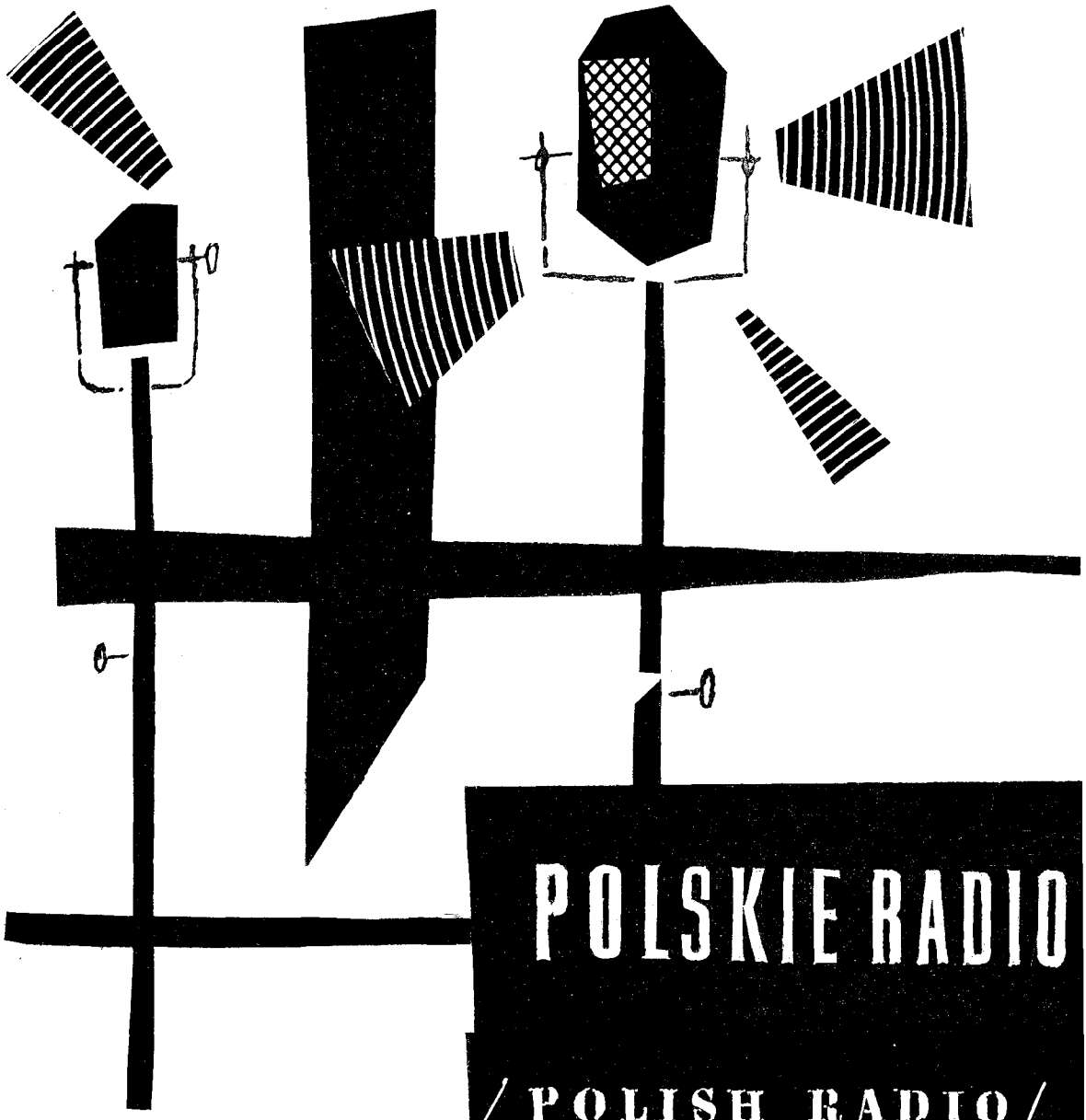
In the television field BFA is at present actively exploring the different production and financial implications of television with a view to entering this field on the most appropriate international basis in the coming year.

Chairman: Dr. Samuel B. Gould, Chancellor of the University of California, Santa Barbara.

President: George E. Probst.

Executive Director: Basil Thornton.

Address: 342 Madison Avenue, NY, 17. N.Y. U.S.A. Enquiries to Executive Director.



BROADCASTS NEWS, MUSIC, FEATURE PROGRAMMES OVER 23 TRANSMITTERS ON LONG, MEDIUM AND SHORT WAVES

WARSZAWA 10 · PO-BOX 46

(for full information see POLAND)

RELIGIOUS BROADCASTING ORGANISATIONS

ASSOCIATION CATHOLIQUE INTERNATIONALE POUR LA RADIODIFFUSION ET LA TELEVISION

General Secretariat: Av. de la Gare 6, Fribourg-Switzerland. – **General Secretary:** Dr. J. Schneuwly.
Administrative Council consists of 12 members. President: Mag. Dr. J. B. Kors, OP, Hilversum/Holland. – **Committees:** a) TV-programmes. b) Radio-TV and the child. c) Publications.
Associate Members: Union of So. Africa, Algeria, Germany, Argentina, Austria, Belgium, Bolivia, Brazil, Canada, Costa Rica, Vatican State, Colombia, Cuba, Curaçao, Denmark, Egypt, Spain, Haiti, Indonesia, Iraq, Ireland, Italy, Morocco, Norway, Portugal, Puerto Rico, Peru, El Salvador, Luxembourg, Sweden, Switzerland, Trinidad, Venezuela, Australia, Ceylon, Belgian Congo, San Domingo, Monaco, Panama, Ecuador, Japan, Philippines, Paraguay, Tunisia, Uruguay, Chile.
Correspondent Members: French West Africa, Mexico, USA, Nicaragua, Panama (Canal Zone), Honduras.
Publications: "Catalogue du Disque de Musique religieuse". "Commentaire du Code des Educateurs pour la TV". Revue UNDA in French, English, Spanish (new edition Dec. 1959).
General Assembly: Next assembly in Monte Carlo 22/2 1960. Next congress in Rio de Janeiro 21–26/8 1960. Branch: For Latin America Addr.: Palacio Sâo Joaquin, 105 rua da Gloria, Rio de Janeiro.

THE WORLD COMMITTEE FOR CHRISTIAN BROADCASTING

General Secretaries. The Rev. W. Burton Martin, 156 Fifth Avenue, New York 10., USA. Reverend H. W. von Meyenn, Church R. Center, Evangelisches Pressehaus, Bethel-Bielefeld, Germany. – **Publication:** The Christian Broadcaster (quarterly, English, German).

CADENA CULTURAL PANAMERICANA
(Panamerican Christian Network).

Officers: Pres.: N. Mydske. Vice Pres.: E. Jordan. Sec.: M. Picazo. Coordinator: W. Herzog. – **Membership:** Consists of evangelical radio and television broadcasters throughout Latin America.
Member: CP-27. La Paz, Bolivia. (Canadian Baptist Foreign Mission Board). – **HCJB. Quito, Ecuador.** (World Radio Missionary Fellowship). – **HOXO. Panama City.** (Jointly by the World Radio Missionary Fellowship and the Latin America Mission). – **TGNA. Guatemala City.** (Central American Mission). – **TIFC. San José, Costa Rica.** (Latin America Mission). – **PJA-6. Aruba, Neth. Antilles.** (The Evangelical Alliance Mission). – **4VEH. Cap Haitien, Haiti.** (Interamerican Missionary Society). – **YNOL. Managua, Nicaragua.** (An association of Nicaraguan Evangelicals).

RELIGIOUS PROGRAMME SOCIETIES

IBRA: Radio A/B, Box 821, Stockholm 1, Sweden. (Broadcast from Radio Africa, Tangier).
Norea Radio: Nordic Radio Evangelistic Association, Oslo.
IKOR, Interkerkelijk Overleg in Radioangelegenheden: Borneolaan 27, Hilversum.
NCRV, Nederlandsche Christelijke Radio Vereeniging: Schuttersweg, Hilversum.
VPRO, Vrijzinnig Protestantse Radio-Omroep: Hilversum.
Radio Reveil: via Tesserete 33, Lugano, Switzerland.
Broadcasting and Film Commission of the National Council of Churhces of Christ in the USA: 220 Fifth Avenue, New York 1.
RAVEMCCO, Radio Visual Education and Mass Communication Committee of the Division of Foreign Missions of the National Council of the Churches of Christ in the USA: 156 Fifth Avenue, New York 10, N.Y., USA.
The Lutheran Hour "Bringing Christ to the Nations": The Lutheran Laymen's League, 3558 Jefferson Avenue, Saint Louis 18, Missouri, USA.
AVACO, Audio Visual Aids Committee of the National Christian Council of Japan: Tokyo, Japan.
World Missionary Radio Fellowship: Tallcotville, Connecticut, USA. Pres. Dr. Clarence E. Jones. **Pub.:** Foreign Missionary Radio.
CAVE (Centro-Audio-Visual Evangelics). Caixa 8287, Sao Paulo, Brazil.

MISSIONARY BROADCASTING STATIONS

PROTESTANT:

Alaska: R. Station KSEW, Board of National Missions of the Presbyterian Church, New York, USA.
Australia: 5KA (Methodist), Adelaide – 2CH, Sydney. Controlled by "New So. Wales Council of Churches".
Bolivia: La Cruz del Sur CP27. Canadian Baptist Overseas Mission.
Costa Rica: R. Station TIFC. San José. Latin American Mission, Bogota, New Jersey, USA.
Ecuador: International Missionary Station "The Voice of Andes", HCJB. World Radio Missionary Fellowship, Talcottville, USA.
Guatemala: R. Cultural, Guatemala City. Central American Mission, Dallas 19, Texas, USA.
Haiti: R. Station 4VEH. "The Evangelistic Voice of the West Indies". Oriental Missionary Society, Los Angeles, Cal., USA. – R. Station 4VI. The West Indies Mission, P. O. Box 71, Cayes.
Hawaii: R. Station KAIM. Hawaii Christian Broadc. Association, Honolulu.
Korea: R. Station HLKY. Ravemcco, New York, USA – R. Station HLKX. Evangelical Alliance Mission, Chicago, USA.
Liberia: R. Station ELWA. Sudan Interior Mission, New York, USA.
Morocco: The Voice of Tangier. International Evangelism, New Jersey, USA.
Neth. Antilles: R. Victoria (PZA6). Evangelical Alliance Mission, Chicago, USA.
Nicaragua: R. Station YNOL. Latin American Mission, Bogota, New Jersey, USA.
Okinawa: R. Station KSAB/KSBU. Far East Broadc. Comp., Whittier, Cal., USA.
Panama: R. Station HOXO, "La Voz del Istmo". World Missionary Radio Fellowship/Latin American Mission, Panama City.
Philippines: R. Station DYSR, Dumaguete City. RAVEMCCO, New York, USA – R. Station DZAS. Far East Broadcasting Co., Whittier, Cal., USA.
Puerto Rico: R. Station WIVV. Calvary Baptist Mission, Bradenton, USA.
Taiwan: BEC36, Cheng Sheng Broadc. Corp., Taipei.

ROMAN CATHOLIC:

Angola: R. Ecclesia, Luanda.
Australia: Station 2SM, Sydney.
Belgian Congo: Radio Leo, Leopoldville.
Bolivia: R. Cultura, Cochabamba. R. Fides La Paz. R. Loyola, Sucre.
Brazil: R. Aparecida, Aparecida, Sao Paulo.
Colombia: R. Bolivariana, Medellin – Universidad de Antioquia, Medellin – R. Sutatenza, Bogota – Accion-Cultural Popular.
Costa Rica: R. Fides "The Lighthouse of the Caribbean", San José.
Dominican Republic: Diocasis de la Vega Cultural Religioso, La Vega.
Ecuador: R. Paz y Bien, Ambato – R. Cultural Relegiosa, Baños – La Voz del Campesino, Naranjal – R. Catolica, Quito.
Mozambique: R. Pax, Beira.
Panama: R. Hogar, Panama City.
Philippines: Notre Dame Broadcasting Corporation, Cotabato City – University of Santo Tomas, Manila.
Portugal: R. Renascenca, Lisboa.
Vatican State: Vatican Radio, Vatican City.
Venezuela: La Voz de la Fé, Maracaibo.

PROPOSED MISSIONARY STATIONS

Organization	Proposed Installations
Arctic Broadc. Association	Nome, Alaska ("Voice of the Arctic")
Central American Mission	San Salvador, El Salvador
Conservative Baptist Home Mission	1) San Pedro Sula or Tegucigalpa, Honduras
EPI (Emetkur Protestant Internat.)	Switzerland
Lutheran World Federation	1) Africa 50 kW s.w., local m.w. 2) Middle East, same facility
Ravemcco	1) Europe 2) Middle East
Salvation Army	Africa, Korea, Alaska
World Radio Missionary Fellowship	Europe ("The Voice of Europe")
Christian Radiomission KCRM	Pusan, Korea
Voice of Tangier	Transworld Radio, Monte Carlo 100 kW 1960

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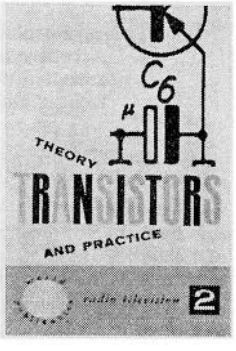
TRANSISTORS - theory and practice



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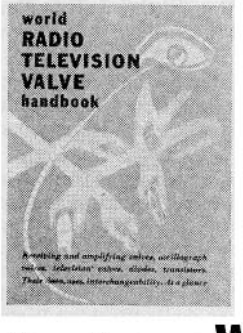

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HOW EUROVISION STANDS TODAY

1. October 1959

A BRIEF SURVEY

The Eurovision Network now covers twelve countries: the total length of the radio links is about 15000 km.

Sixteen Services are able to exchange television programmes on this network. They are the following:

Left: G. HANSEN, Director of the E.B.U. Technical Centre. Right: M. J. L. PULLING, Controller, Television Service Engineering of the British Broadcasting Corporation and chairman of Working Party L of the EBU.

Austria: Oesterreichischer Rundfunk

Belgium: Institut National Belge de Radio-diffusion (French-speaking)
Belgisch Nationaal Instituut voor Radio-Omroep (Flemish-speaking)

Denmark: Danmarks Radio

France: Radiodiffusion-Télévision Française

German Federal Republic: Arbeitsgemeinschaft der Rundfunk-anstalten der Bundesrepublik Deutschland

Luxembourg: Compagnie Luxembourgeoise de Télédiffusion

Monaco: Radio Monte-Carlo

Netherlands: Nederlandse Televisie Stichting

Sweden: Sveriges Radio

Switzerland: Schweizerische Rundspruch Gesell-schaft (German-speaking)
Société Suisse de Radiodiffusion (French-speaking)
Televisione Svizzera Italiana (Italian-speaking)

United Kingdom: British Broadcasting Corpora-tion. Independent Television Authority

Eurovision programmes can also be transmitted to Finland and Yugoslavia, but the Network does not yet allow contributions to be made to Eurovision by Oy. Yleisradio or by the Jugoslovenska Radio-difuzija. The Norsk Rikskringkasting (Norway) can be connected to the Network for special occasions.

Exchange of programmes is also possible, and has in fact been effected a few times, with some countries of Eastern Europe: Czechoslovakia, Eastern Germany, Poland and Hungary. Programmes could also be transmitted to the U.S.S.R. via Finland, but not in the opposite direction.

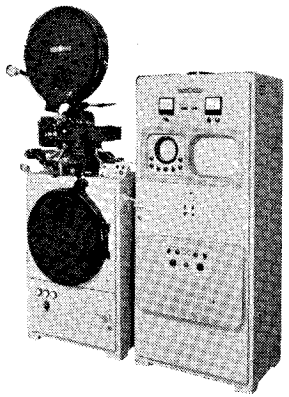
A programme has been fed to the Eurovision Network from Algiers across the Mediterranean by means of a high-flying aircraft equipped with a radio relay station. Pictures from the United States have also been fed over the Eurovision Network using the so-called Cable Film process—that is, transmitting a short film sequence at slow speed over the Transatlantic telephone cable. There is of course a time delay, but this can be reduced to a few hours.

On an average there are five or six Eurovision transmissions per week, coordinated by the E.B.U. (not taking into consideration the many exchanges that take place between neighbouring countries, which do not need coordination). The average participation in each of these transmissions is seven or eight Services per transmission.

The Eurovision exchanges are organised by the E.B.U. as follows. The programme coordination is effected by the Administrative Offiice at Geneva and the technical coordination by the Technical Centre in Brussels, where a specially equipped International Technical Coordination Centre (C.I.C.T.) exists for this purpose. The problems arising from the Eurovision exchanges are dealt with by the Groupe Télévision 2 (known as GTV/2) on the programme side, and on the technical side by Working Parties L (International television relays) and M (Long-distance television transmission). Working Party L deals with the operational aspects, and is a joint sub-group of the European broadcasting and P.T.T. engineers, while Working Party M studies the purely technical aspects, such as test signals, standards converters etc.

The Network will certainly expand in the years to come, notably to enable Eurovision transmissions to be made from Norway, Finland and Yugoslavia, and also to include Spain, Portugal and possibly North Africa. At the same time it is possible that the Network will be used more extensively, for instance for a scheme of daily news-film exchanges, for which trial periods have already been held.

TV STUDIO EQUIPMENT



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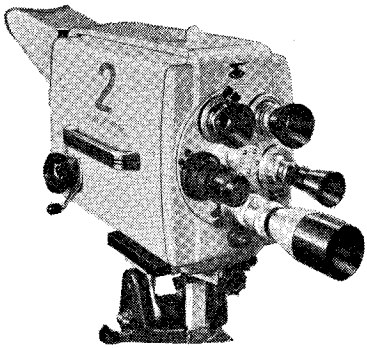

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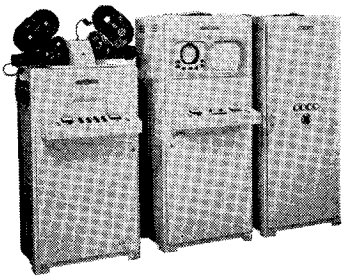

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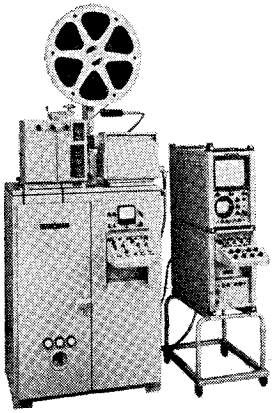

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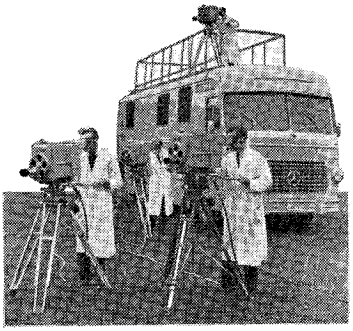

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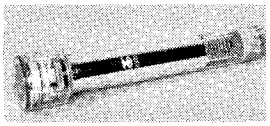

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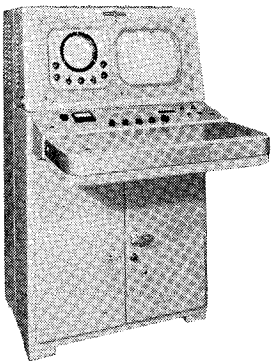

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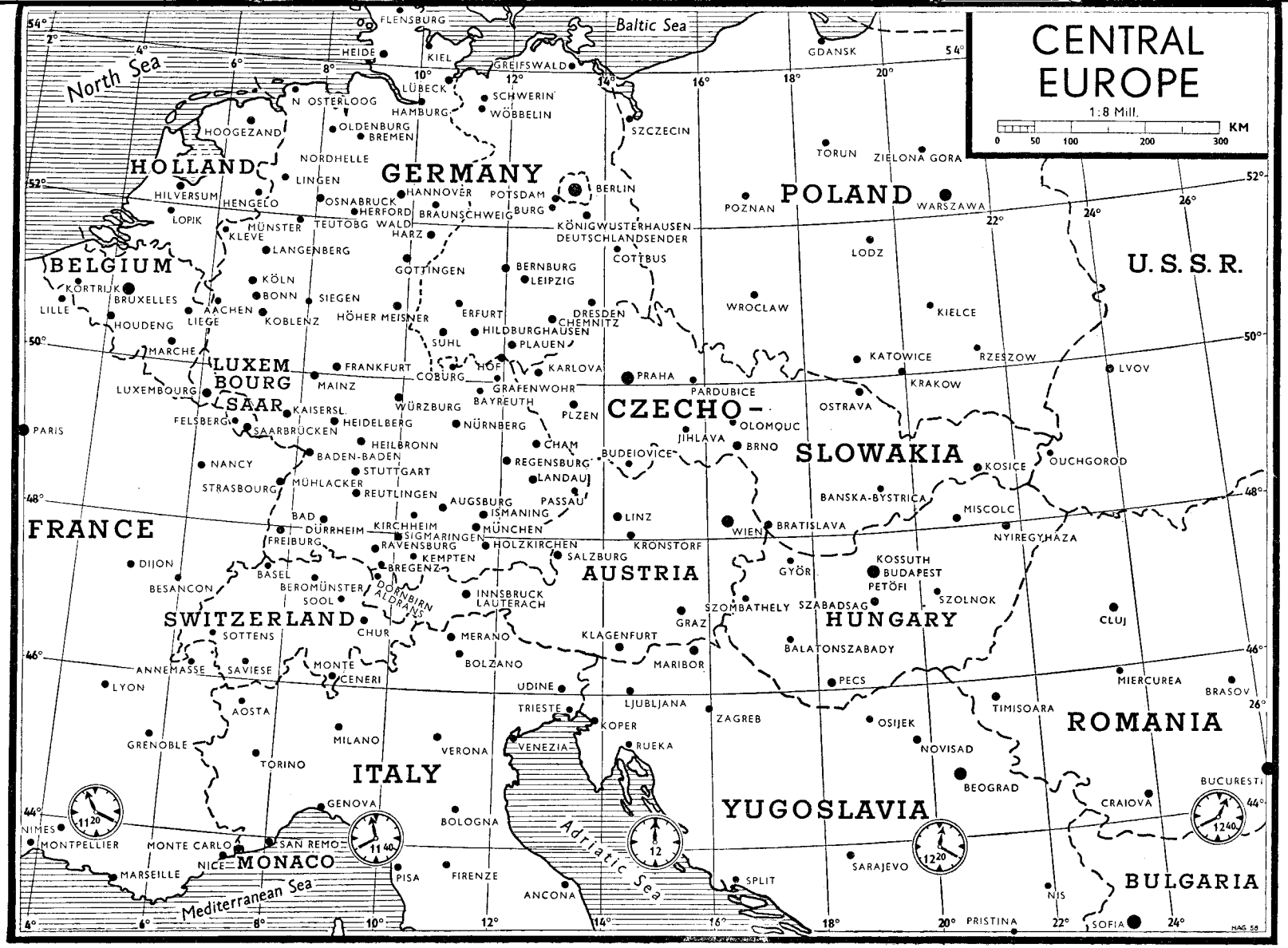
TELEFUNKEN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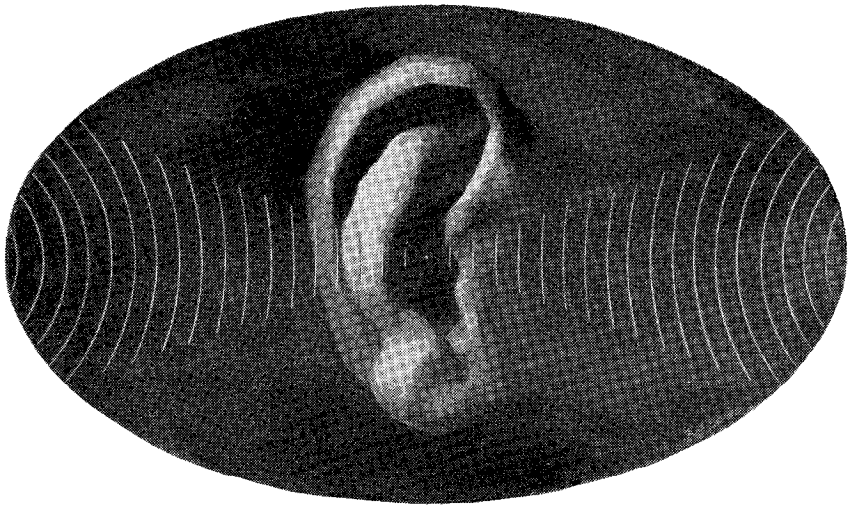

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RECEPTION OF TELEVISION AND V.H.F. TRANSMISSIONS

T. W. Bennington, Research Dept., BBC, England.

On frequencies greater than about 40 Mc/s (wavelengths shorter than about 7.5 metres) the radio energy normally penetrates through the ionosphere without reflection, and so is not returned to the earth at long distances. The transmitted signals are therefore only received at relatively short distances, although, as will be seen later, various conditions can arise which sometimes permit them to be received at much greater distances.

But under normal conditions reception is obtained by utilising waves which pass from transmitting to receiving aerial just above the ground, both directly and by reflection at the ground. Thus, it might be supposed that, because of the curvature of the earth, the distance range for reception would be limited to the straight »line of sight« of the receiving aerial from the transmitting aerial. But there are two effects which modify this conception. Firstly there is some diffraction or »bending« of the radio wave around the curve of the earth so that a limited amount of energy penetrates into the »shadow« zone by this means, though, of course, not so much energy reaches this zone as would be the case if the curve in the earth's surface were not present. Secondly the direct wave does not travel between the two aerials in a perfectly straight line, but, because of the variation in atmospheric pressure, temperature and moisture content with height above ground, it is refracted so as to follow a slightly but continuously curving path. The result of this is that the »radio horizon« is extended somewhat beyond the straight line horizon and a usable signal is received somewhat further than would be the case if the path were a straight line. The distance at which a signal is receivable depends, in fact, critically upon the height of the transmitting and receiving aerials and upon the power radiated, and also, to a smaller extent, upon the frequency, the polarization (i.e. vertical or horizontal) and the nature of the terrain (i.e. whether smooth or mountainous). The strength of the signal also varies considerably between the receiving locations in any given area, so it is usual, in specifying received signal strength, to state the percentage of receiving locations to which this applies.

The Table gives a rough idea of the maximum distances at which a good signal could be expected in normal atmospheric conditions in a quiet country site, with a receiving aerial 10 m above the ground, for different transmitter powers and aerials heights. It applies to 50% of the receiving locations for 50% of the time, is for a non-mountainous land path, and is approximately applicable over the v.h.f. band and for vertical or horizontal polarization.

APPROXIMATE MAXIMUM DISTANCES FOR GOOD VHF RECEPTION

Power	Transmitting Aerial Height 200 m	Transmitting Aerial Height 400 m
	Distance (km)	Distance (km)
10 kW	90	110
50 kW	110	130
100 kW	120	140
500 kW	150	170

So much for reception under »normal« conditions. We will now consider the effects which give rise to v.h.f. reception at greater distances.

Firstly it is possible for transmissions in the v.h.f. band to be propagated over long distances by reflection of the waves by the regular F_2 layer of the ionosphere. This will only happen during times when the ionisation in that layer is at an exceptionally high level, and is therefore confined to the years near sunspot maximum, and is unlikely to occur at all in years when the sunspot activity is low. During the years when it does occur it is only likely to happen during the daytime, and more particularly during the equinox and winter than during the summer. The lower frequencies in the v.h.f. band are more subject to this type of propagation than are the higher ones, and it is unlikely to occur on frequencies above about 60 Mc/s. Signals propagated in this way may be received at great distances, often as far as 12,000 km and occasionally even further. Though sound signals may be well received by this means it is unlikely that good picture reception will occur for any length of time, owing to instabilities in the ionosphere.

Secondly, v.h.f. reception can occur over distances between about 800 and 2300 km by reflection by highly ionised patches in the E layer of the ionosphere, known as Sporadic E. This is likely to occur not only at sunspot maximum but during any year, but only during the local summer months (May to September in the northern hemisphere). During these months it is much more likely in daytime than at night, though not regularly and for long daily periods, but rather at odd times during some days, and lasting perhaps for from half-an-hour up to a few hours. The lower v.h.f. frequencies are most likely to be received in this way, but those up to about 100 Mc/s may be propagated occasionally. Sound reception can be quite good in this type of propagation and even picture reception may be fair for short periods. Such reception is unlikely to be obtained from distances much greater than that given above.

Continued page 39

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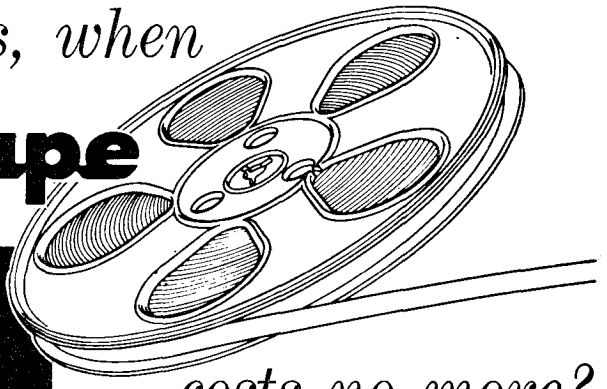

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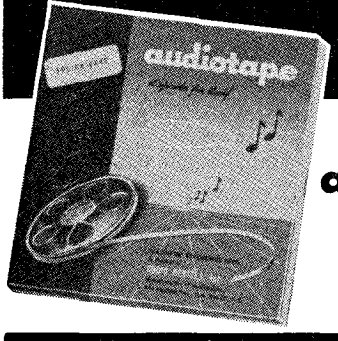
AUDIOTAPE has:
excellent response at high and low frequencies – assures most faithful reproduction of all sounds, exceptionally low background noise; unequalled uniformity of output – guaranteed not to exceed ¼ db within the reel and ½ db from reel to reel. AUDIOTAPE oxides are magnetically oriented to provide increased output and reduced distortion. AUDIOTAPE is guaranteed splice-free in 1200 and 2500 ft. reels on 1½-mil plastic or "Mylar" base, and 1800 and 3600 ft. reels on 1-mil plastic or "Mylar". It has a moisture-repellent binder that assures smooth, quiet tape travel even under hot, humid conditions.



A Complete Line of the Finest Professional Quality Magnetic Sound Recording Tape

In this high fidelity age, the key to success in the recording business is QUALITY. Numerous broadcasting stations throughout the world found that AUDIOTAPE consistently delivers outstanding performance.

The complete line of professional quality AUDIOTAPE offers a base material and thickness to meet every recording need. And no matter which type you select, you can be sure you are getting the finest tape that can be produced. There is a complete range of reel sizes and types, too, including the easy-threading C-Slot reel for all 5 and 7-inch AUDIOTAPES.

AUDIOTAPE is available in the Regular Tape, Long-Recording Tape (50% more recording time), Super-Thin Tape, also the AUDIOFILM for the original recording of motion picture and TV sound.

audiotape *. . . the Standard of Professional Sound Recording Quality the World Over.*

Write today for catalog and prices to:

AUDIO DEVICES, Inc.

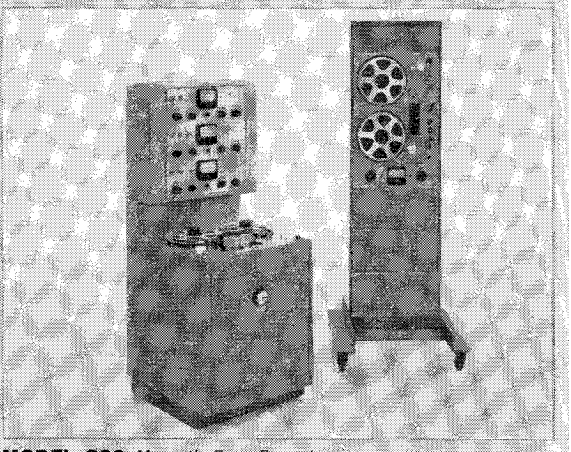
Export Department
13 East 40th St., New York 16, N. Y., U.S.A.
Cables: ARLAB

AMPEX

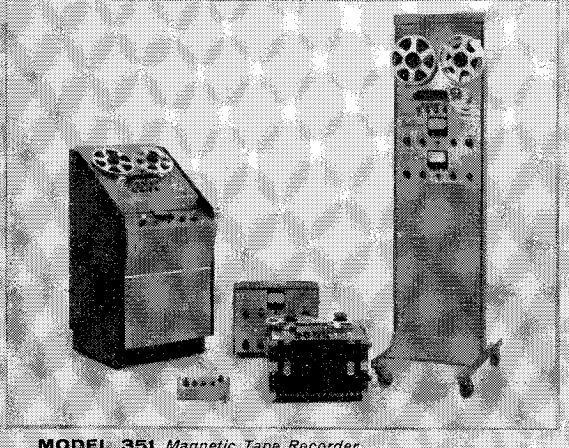
World Leader in Precision Magnetic Tape Recording Instruments

Ampex Tape Recorders are in service throughout the world in television and radio stations, and in professional sound recording studios . . . wherever finest quality is required.

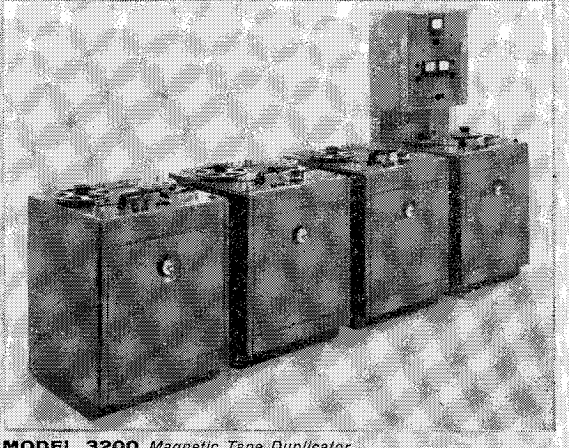
VR-1000B *Videotape* Television Recorder*
First commercially available Videotape Recorder. Magnetically records what the TV camera "sees," in either black and white or color. Playbacks look "live."



MODEL 300 *Magnetic Tape Recorder*
Standard of the professional recording industry, it consistently delivers the finest in audio reproduction. Available in as many as 8 channels, in console and rack mounting.



MODEL 351 *Magnetic Tape Recorder*
First choice of the broadcasting industry. Features printed circuits and miniature tubes. Available in console, rack and portable models, with one or two channels. Sold by dealers.



MODEL 3200 *Magnetic Tape Duplicator*
High speed duplication, with superb fidelity, of recorded master tapes. Makes up to 10 copies at one time. Available with one, two or four channel heads.

*TM. Ampex Corporation

Fully illustrated brochures, complete with specifications, are available on each recorder and the duplicator. Technical bulletins are also available on the following subjects: VIDEOTAPE RECORDING • VIDEOTAPE SPLICING • MULTI-CHANNEL RECORDING • MULTI-CHANNEL TECHNIQUES. See your distributor listed on next page or write to Ampex.

AMPEX INTERNATIONAL

934 CHARTER STREET, REDWOOD CITY, CALIFORNIA

AMPEX REPRESENTATIVES

ARGENTINA	Graham y Cia, Buenos Aires
AUSTRALIA	Amalgamated Wireless, Sydney
AUSTRIA	Inglomark, Vienna
BAHAMAS	John S. George, Nassau
BELGIUM	European Sales Association, Brussels
	MBLE-Congo, Brussels
BELGIAN CONGO	MBLE-Congo, Leopoldsville
BOLIVIA	Mundo, Ltda., La Paz
BRAZIL	Byington y Cia, Sao Paulo
	Audio Importacao & Exportacao, Rio de Janeiro
BURMA	Rangoon Radio Service
CHILE	Compania Comercial y Tecnica, Ltda., Santiago
COLOMBIA	Industria Radio-Electrica Thomas, Medellin
	Jorge E. Nassar, Medellin
COSTA RICA	Almacen Koberg, Ltda., San Jose
CUBA	Caribbean Electronics, Havana
DENMARK	Wilh. F. Hoffman & Co., Copenhagen
ECUADOR	Comandato, S. A., Guayquil and Quito
	Nicanor Muller, Quito
EGYPT	El Chark Engineering Office, Cairo
EL SALVADOR	L. Garay & Cia, San Salvador
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ENGLAND	Rank Cintel Limited, London
FINLAND	Textoprint, Helsinki
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GREECE	K. Karayannis, Athens
GUATEMALA	Musical, Guatemala City
HAITI	Valerio Canez, Port-au-Prince
HOLLAND	Audium Electro-Acoustische Industrie, Amsterdam-C
HONDURAS	Casa Uhler, S. A., Tegucigalpa, D. C.
HONG KONG	The Radio People, Ltd., Hong Kong
INDIA	Photophone Equipments Pvt., Ltd., Bombay and New Delhi
IRAN	Central Cinema Studio, Ltd., Teheran
ISRAEL	Electronics & Engineering, Ltd., Tel-Aviv
ITALY	Oberto Giannuzzi-Savelli, Milan
	Societa Larir, Milan
JAMAICA	Wonards Radio Engineering, Ltd., Kingston
JAPAN	Sakata Shokai, Ltd., Tokyo and Osaka
JORDAN	Khoury Freij & Co., Jerusalem
KOREA	Korcad International, Seoul
KUWAIT	Union Trading Co.
LEBANON	Sarrafian Stores, Beirut
MEXICO	Audio-Vision, S. A., Mexico 7
	RCA Victor Mexicana, Mexico 16
	Claudio Garza Villareal, Monterrey
NETHERLANDS ANTILLES	Benar Sales & Service, Curacao
NEW ZEALAND	W. G. Leatham, Ltd., Wellington
NICARAGUA	F. A. Mendieta, Managua
NORWAY	British Import, A. S., Oslo
OKINAWA	Roger's, Ltd., Naha
PAKISTAN	Electronics & Film Equipments, Ltd., Karachi
PANAMA	Sonitel, S. A., Panama
	Tropelco, S. A., Panama
PERU	International Machinery Co., Lima
	Fernando Ezeta, B., Lima
PHILIPPINES	Don D. McLaughlin, Manila
PORTUGAL	Casa Serras, Lisbon
PUERTO RICO	Radiotelephone Communicators, San Juan
	Ace Agencies, Rio Piedras
SINGAPORE	Eastland Trading Co., Singapore 1
SPAIN	RCA Espanola, S. A., Madrid
SWEDEN	Elektronikbolaget AB, Stockholm
	Maskin & Elektro, Orrebro
SWITZERLAND	Megex-Zurich, Zurich 48
TAHITI	Oceanic Garage, Papeete
TAIWAN	Karl & Loyal Co., Taipei
THAILAND	G. Simon Radio Co., Ltd., Bangkok
TRINIDAD	Beecham Coates Co., Port-of-Spain
TURKEY	Nefan, Ltd., Istanbul
UNION OF SOUTH AFRICA	Leigh & Hurwitz (Pty), Ltd., Johannesburg
URUGUAY	M. Gonzales del Rio, Montevideo
VENEZUELA	Maracaibo Import, Maracaibo
	Sonotec, S. A., Caracas

RECEPTION OF TELEVISION

continued from page 36.

Thirdly, conditions can arise in the lower atmosphere which extend the distance range for v. h. f. reception beyond that which occurs under »normal« atmospheric conditions. Certain meteorological factors are responsible for this, which lead to the refraction or »scattering« of radio energy from layers of air in the lower atmosphere which have different electrical characteristics from those of the air nearer the ground. Such conditions are liable to occur at any time of day and at any season of year, though, since they are often associated with anticyclones and periods of »settled« weather, they are somewhat more prevalent during summer than at any other season. The extended v. h. f. distance ranges may last for many hours. Reception by this means, which may be subject to some fading, may occur within the zone extending from the normal distance range out to about 800 km from the transmitting station. It can occur over all the v. h. f. and television frequencies. Good sound reception and, perhaps, tolerable picture reception may be obtained at the extended ranges whilst the meteorological condition lasts.

It will be seen, therefore, that none of the three conditions which give rise to extended v. h. f. reception ranges is dependable, in the sense that it can be relied upon to provide such reception at any given time.

There is, however, a relatively new system of v. h. f. communication which permits the attainment of extended ranges on these frequencies by utilising the »scattered« energy. This »forward scattering« can occur both in the ionosphere and in the troposphere and results in a weak, but with suitable apparatus, usable signal at medium long distances. The system is, however, at present only being used for military or experimental transmissions, and so its main interest to the listener is the interference to other transmissions which it may cause.

DX-PROGRAMMES

AUSTRALIA: **"R. Australia"**. "Australian DX'ers calling". Sat. 22.00, 07.15 (Apr.-Sept.), 08.45 (Oct.-March), 13.30, 16.00.
FINLAND: Finnish Broadcasting Co. DX-Prgr. First Fri. of the month: 16.00. First Sat. of the month 11.30.
DENMARK: "Danish State Radio". A special DX-bulletin is broadcast on Tues. (EST) at the end of the two No.Am. prgrs. (Wed. 02.00, 03.30) and Thurs. 09.50, 14.50.
GERMANY: **"Deutsche Welle"**. Every 2nd Mo. in the month 07.30, 16.30, 18.00, 23.00, 24.00. Tues. 03.30. – **"R. Berlin International"** First Mo. of the month at 17.00 (Swedish).
HAITI: **"St. 4VEH"**. Tues. 02.45. Wed. 10.45.
HOLLAND: **"R. Nederland"**: Mo. 07.13, 09.43, 14.43, 21.58. Tues. 02.13.
JAPAN: **"R. Japan"**: Every 3rd/5th Fri./Sat. of the month: Fri. 05.10. Sat. 08.10, 09.55, 12.10, 18.25. Sun. 00.55. – **"Nihon Shortwave Broadcasting Co."**. **"DX-News"** Sat. 22.15–22.30 (in Japanese only).
SWEDEN: **"R. Sweden"**. "Sweden calling DX'ers". Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast. Also in Spanish (once monthly) and Portuguese (Wed.).
IBRA RADIO: Every Wed. 22.00.
SWITZERLAND: **"Swiss Shortwave Service"**. Every Fri./Sat. (in all English transmissions) 07.50, 09.35, 13.20, 15.20, 17.20, 19.20, 02.05, 04.50.
U.S.A.: **"R. Boston"** (WRUL). "Swedish DX-prgr." in the Mo.prgr. 21.00.

AIR EXTERNAL SERVICES PUBLICATIONS

For overseas listeners to the short-wave transmissions of All India Radio, INDIA CALLING, a monthly programme journal in English, provides a service of advance programme information supplemented by some of the best broadcast talks on life in India today. It is published in three illustrated editions – Eastern, Western and European.

For listeners in West Asia, there are IDHAT-EL-HIND in Arabic, SADA-E-HIND in Persian and D'HIND AWAZ in Pushtu.

For East Asia, there is SUARA PENGHUBUNG published in Bhasa Indonesia and programme bulletins for Burmese, Chinese and Tibetan speaking listeners.

The journals are supplied free of cost to listeners in foreign countries. Requests may be forwarded either through the Indian diplomatic missions or direct to

THE DIRECTOR OF
EXTERNAL SERVICES
ALL INDIA RADIO
P. O. BOX 500, NEW DELHI

DA 59/92

STANDARD FREQUENCIES

R. STATION WWV AND WWVH (Go.)

ADDR.: Nat. Bureau of Standards Boulder Laboratories, Boulder, Colorado, USA – WWV: Box 331, Route 1, Lanham, Maryland – WWVH: Box 901, Puunene, Maui, Hawaii. – L.P.: Dir. Tec.: WWV: Fr. Sera. Dir. Tec.: WWVH: S. Katahara.

Standard Radio Frequencies: WWV: 2500 kc/s 120 m 1 kW – 5000 kc/s 60 m 8 kW – 10000 kc/s 30 m 9 kW – 15000 kc/s 20 m 9 kW – 20000 kc/s 15 m 1 kW – 25000 kc/s 12 m 0.1 kW. The Broadcasts are continuous, night and day, exc. WWV is off the air approx. 4 min. each h. The silent period commences at 45 min. plus 0 to 15 seconds, after each h.

WWVH: 5000 kc/s 60 m 2 kW – 10000 kc/s 30 m 2 kW – 15000 kc/s 20 m 2 kW.

WWVH is interrupted for approximately three minutes commencing about ten seconds after the beginning of each hour and each fifteen minute period thereafter; also, for periods of 34 minutes each day beginning at 19.00.

Time signals: The audio frequencies are interrupted precisely two minutes before each h. They are resumed precisely on the hour and each five min. thereafter; they mark accurately the hour and the successive 5-min. periods.

ANN.: "National Bureau of Standards, WWV, when the tone returns Eastern Standard Time is... AM or... PM". – V. by QSL-card or letter. – PUB.: Prgr.sched. on request.

NATIONAL PHYSICAL LABORATORY (Go.

ADDR.: Teddington, Middlesex, Gt. Britain.

MSF Standard Frequency Service:

kc/s	m	kW		kc/s	m	kW	
60	5000	10	14.29–15.30	5000	60	0.5	continuous*
2500	120	0.5	– – – *	10000	30	0.5	– *

* exc. for break in transm. from 15–20 minutes past each h.

ANN.: Call sign 3 times in slow Morse. "This is MSF, Rugby England transmitting carrier and modulation frequencies within 2 parts in 108 of nominal on 2500, 5000 and 10000 kc/s". – V. by letter.

ROYAL GREENWICH OBSERVATORY

ADDR.: Time Dept., Herstmonceux Castle, Hailsham, Sussex, England.

The international time signals of the Royal Greenwich Observatory are radiated as follows: 10.00 and 18.00 Rugby GBR 16 kc/s, GPB30 10332.5 kc/s, GIC37 1768.0 kc/s.

TIME SIGNAL FROM DOMINION OBSERVATORY, CANADA

ADDR.: Dominion Observatory, Dept. of Mines and Technical Surveys, Carling Av., Ottawa, Ontario. – L.P.: Dir. Adm.: Dr. C. S. Beals. Dir. Tec.: M. M. Thomson.

STATIONS: CHU 3330 kc/s 90.09 m 0.3 kW – 7335 kc/s 40.90 m 3 kW – 14670 kc/s 20.45 m 3 kW. – D. PRGR.: 24 h. Time Signals only, in voice and seconds pulses. – ANN.: Hours and minutes announced during the last 10 seconds of each minute: "Dominion Observatory, Canada, Eastern Standard Time... hours... minutes". – V. by QSL-card. – F.PL.: Standardization of frequencies in 1960. – PUB.: Prgr. sched. free on request.

STATION JJY

ADDR.: R. Research Laboratories, 13–6 chome, Iigura, Azabu, Minato-ku, Tokyo, Japan.

Standard Freq. & Time Signals:

2500 kc/s	2 kW	06.59–22.59	10000 kc/s	2 kW	24 h. a day
5000 kc/s	2 kW	24 h. a day	15000 kc/s	2 kW	24 h. a day

The st. is off the air every 29–39 min. of the hour. – V. by QSL-card.

HBN, NEUCHATEL OBSERVATORY (Switzerland)

Standard Frequencies: Observed sched. of HBN is as follows: 2500 kc/s: Sat. 07.10–Tues. 07.00, Wed. 07.10–Fri. 07.00. 5000 kc/s: Tues. 07.10–Wed. 07.00, Fri. 07.10–Sat. 07.00.

STATION LOL

ADDR.: Observatorio Naval del Ministerio de Marina Costanera Sud, Buenos Aires. – L.P.: Dir. Gen.: J. Marpegán. Dir. Tec.: A. Ricart.

Standard Freq. and Time Signals: LOL:

5000 kc/s 2 kW 10000 kc/s 2 kW 15000 kc/s 2 kW

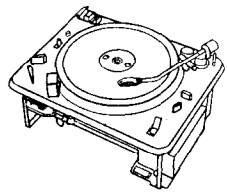
D. exc. Sun. and holidays: 11.00–12.00, 14.00–15.00, 17.00–18.00, 20.00–21.00, 23.00–24.00.

Schedule: 4 min. dash (1200 c/s), beginning at 00.00, 00.05, 00.10 etc. Then 3 × LOL in morse followed by ann. (lady's voice) of Argentine time.

SOLAR ACTIVITY

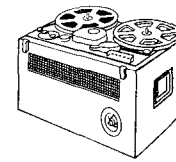
The ionospheric station at Linday (Harz), belonging to the Max Planck Institute, radiates on an unoccupied frequency between 3600 and 3620 kc/s every Fri. approx. 16.30 a report concerning sun spots.

BROADCAST STUDIO EQUIPMENT



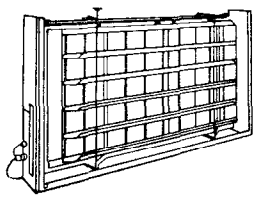
EMT 927
EMT 930

High-precision Transcription Turntables with dynamic pick-up, start-stop brake for remote controlled operation.



STUDER 30

Magnetic Tape Recorder for Studio and outside broadcast application. Special features: Balance for constant tape tension, weight only 70 lbs and remote control of all operations.
Tape speeds: 7,5 and 15 i. p. s.

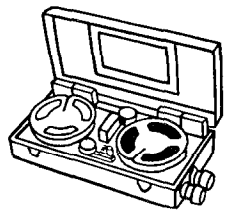


EMT 140

Reverberation Set for artificial echo effects with reverberation time adjustable between 1 and 5 seconds.

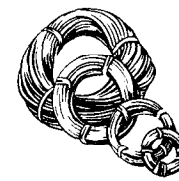
Dynamic and Condenser Microphones

for studio operation with directional and omnidirectional radiation characteristic.



STELLAVOX

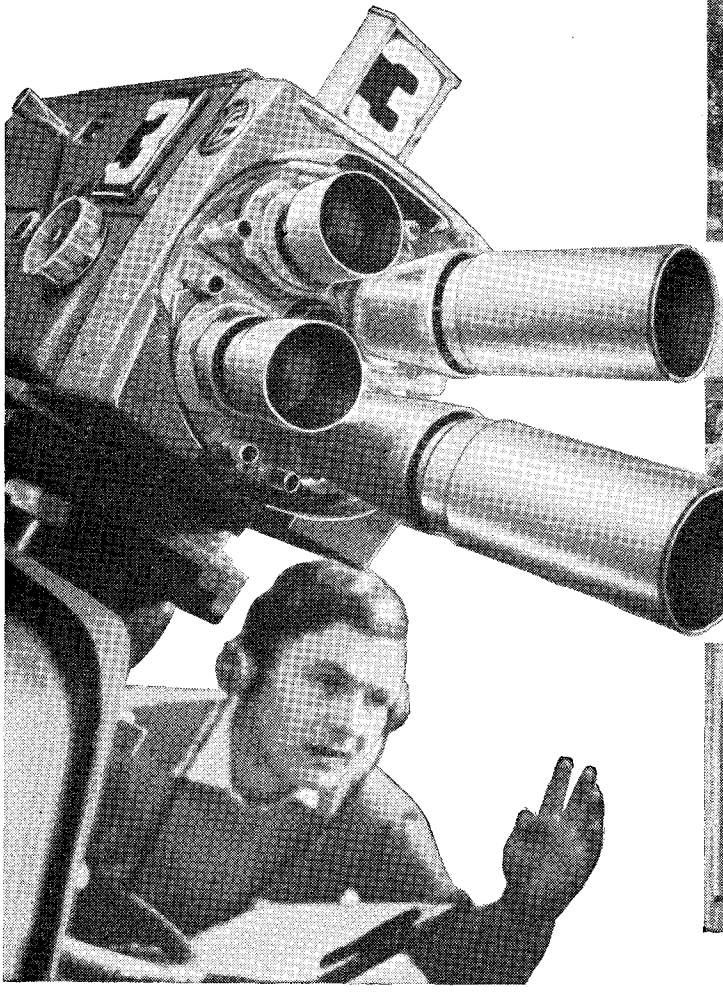
Professional battery-operated, transistorized magnetic tape recorder.
Tape speed 7,5 i. p. s. Weight only 4 lbs.

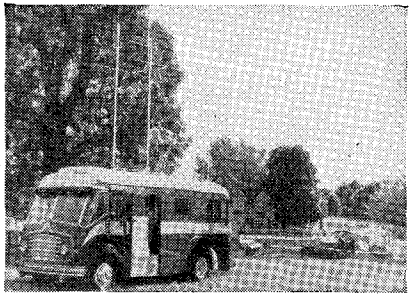


Special Audio Frequency Cables

for studio purposes double screened, and especially HF proof.

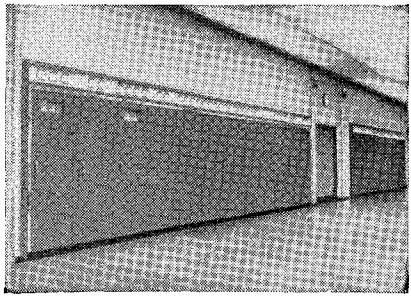
ELEKTROMESSTECHNIK WILHELM FRANZ KG
POSTBOX 327, LAHR/SCHWARZWALD, WESTERN GERMANY, TELEPHONE 20 53, CABLES: MESSTECHNIK





O.B VAN

STUDIO CONTROL



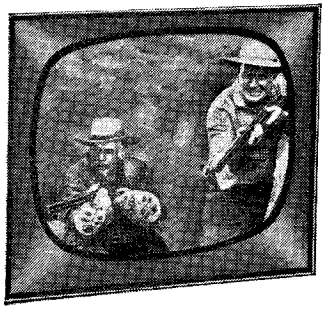
TRANSMITTER STATION

BUILDS COMPLETE STUDIOS

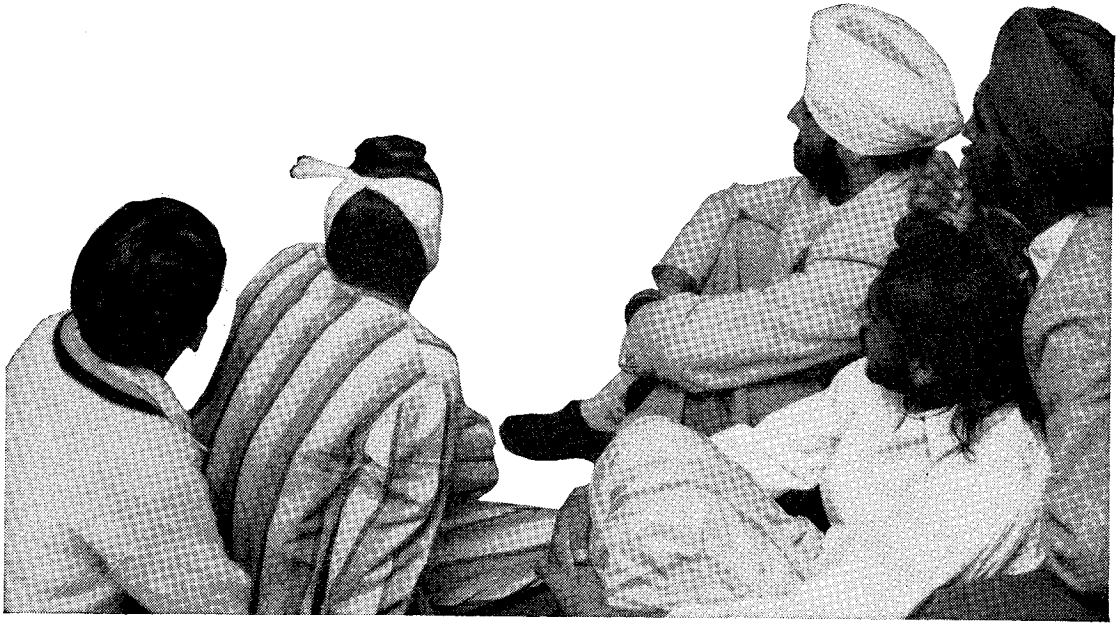
to transmit the programmes

Many countries owe their first glimpse of TV to the resource and enterprise of Pye. Today Pye transmission equipment is used by the television services of more than twenty-eight nations throughout the world. Even in such countries as America and Canada, where television is highly developed and keenly competitive, the Pye product is increasingly in demand. The company's pioneering work in the field of TV transmission and the succession of major developments which they have introduced have given Pye a place of leadership in the industry.

For full technical details write to Pye Ltd., Sales Dept., TV Transmission Division, Cambridge, England.



...and a wide range of domestic sets to receive them



Pye has also pioneered many of the outstanding advances in the design of domestic television receivers—such developments as the first transformerless TV, Automatic Picture Control, 13-channel tuning and the printed circuit. In many countries throughout the world the nightly TV programme is being received by Pye sets which benefit from the unsurpassed wealth of experience gained by this company in every field of radio and television. Today, the Pye trademark is accepted throughout the world, by producer and viewer alike, as a guarantee of quality, performance and reliability.

Pye Limited • Export Division • Cambridge • England

1. **Poland:** From the Polish Song and Dance Ensemble "Slask" – performance of a Krakowiak-dance during a TV-show in Katowice.

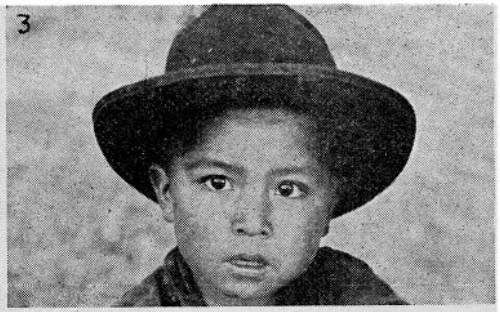
2. **Holland:** A Radio Nederland reporter talking to a miner in the Statemine "Hendrik", in the province of Limburg. (Radio Nederland Wereldomroep).

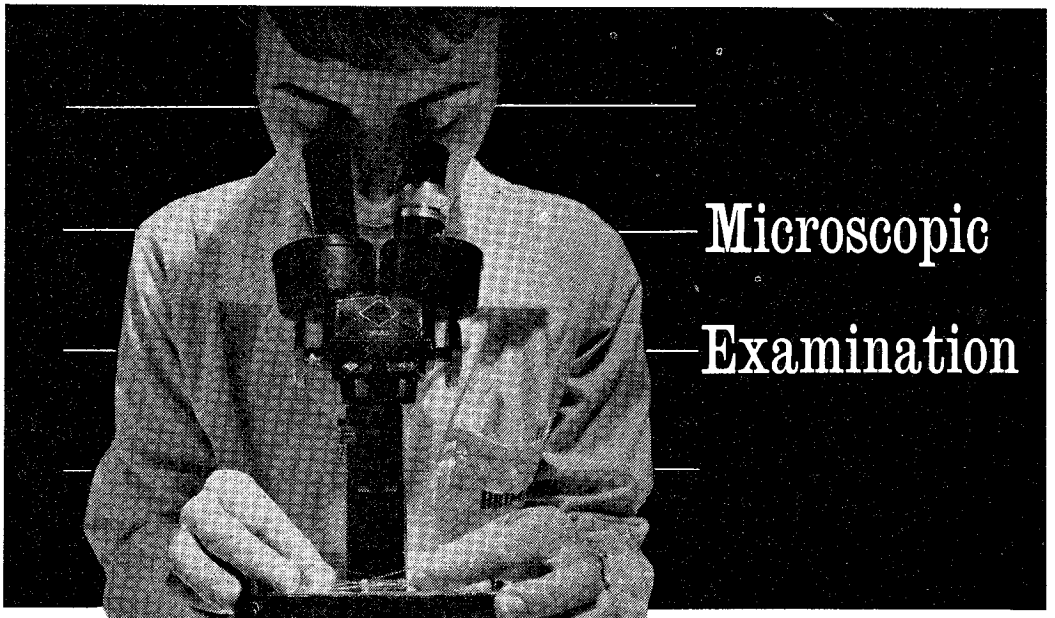
3. **Ecuador.** A typical child from the suburb of Quito.

4. **Greece:** Paysant-musiciennes from Peloponese during a popular festival in Athens.

5. **Hong Kong:** A type from the popular program: "Farmers Programme" (Radio Hong-Kong).

6. **Japan:** NHK play being televised. (Nippon Hoso Kyokai).





Microscopic Examination

The reliability of the Brimar 'T' range of valves has been "built-in" as the result of experience gained from a programme of examination and testing. One of these tests is illustrated. Sub-miniature valves for use in guided missiles are being microscopically examined for mechanical defects. The degree of magnification is more than sufficient to ensure that no flaw in the structure can escape detection—a vital precaution in equipment which is subjected to extreme stress and strain. The information derived from this and other tests on valves for special applications is used to improve manufacturing techniques on commercial types, so making Brimar the obvious choice when the demand is for a *reliable* valve.

better make it

BRIMAR

STC COMPONENTS GROUP

Standard Telephones and Cables Limited

Registered Office: Connaught House, Aldwych, London, W.C.2

VALVE DIVISION: FOOTSCRAY · SIDCUP KENT FOOTSCRAY 3333

HOW TO USE THE WORLD RADIO HANDBOOK

The World Radio Handbook is designed to help the international radio listener obtain maximum enjoyment from his receiver. For the beginner, it will serve as an introduction to the thousands of stations broadcasting in all parts of the world. For the experienced listener, it will be an invaluable guide to program services of specific countries and an able assistant in identifying stations.

International broadcasting offers armchair pleasure to the listener in the form of education, information and entertainment. For a country or government it represents a worldwide voice for dissemination and intrepretation of news and for acquainting those beyond its borders with the national culture and assets. In our modern age when the world has been shrunk by the speed of travel and commerce, mutual understanding is more important than ever before. International radio communication is a valuable aid in nourishing goodwill and understanding between peoples everywhere, and its value to citizens of all countries has never been higher.

For many years international radio, particularly in the short-wave range, has been a principal means of entertainment and enlightenment in some parts of the earth, such as the Pacific islands and sections of Africa. In other areas, such as Europe, world broadcasting has been one of several major communications media. In still other countries, international radio has become an important force and has begun to attract listeners in sizable numbers.

The principal contents of this book are divided into two sections: 1) a listing by country of stations, programs, times, call signs, etc.; and 2) a listing by frequency and wave length of the main international long-, medium- and short-wave stations.

The first section, beginning on page 56, is divided into eight geographical categories: Europe, Africa, the Near East, the East, the Pacific, North America, Central America and South America. Countries are arranged alphabetically in each geographical category. The information on the broadcasting services of each country includes:

Local time in relation to Greenwich Mean Time; principal **Language** or **Languages** of the country; number of **Population**; total number of **Receivers in use** and in most cases the **Power** used.

Names and addresses of broadcasting companies (commercial broadcasts are identified as such).

Names and titles of leading officials of each company.

List of AM and FM stations operated by each company with call signs, frequencies, wave lengths and power expressed in kilowatts.

Every radio station whether in the long-, medium- or short-wave range, has an identifying call sign of three to five letters or a combination of letters and figures of which the first, or first two, denote nationality in accordance with the international list of prefixes (See page 20). Some stations - those in the United States, for example – always use these call signs when identifying themselves. Others do not.

Since many broadcast stations also operate FM and TV stations, a common practice is to authorize the use of the call letters of the AM stations followed by a dash and FM or TV, as the case may be.

Short-wave stations usually employ directional aerials to beam their programs to particular areas on frequencies and at times calculated for best reception. The reception areas give their names to the services, e.g.: European Service, Near Eastern Service, Latin-American Service, Far Eastern Service, etc. The language employed is that of the listeners in the area to which the broadcast is directed. The best reception usually is obtained from transmissions directed to your area. However, there is a considerable amount of overlapping between many service areas and, therefore, it is often possible to obtain good reception of programs beamed to adjacent areas. Short-wave propagation conditions change continually because of influences of daylight and darkness, seasonal considerations and solar activity. Consequently, good reception requires waveband changes from time to time.

Long- and medium-wave AM stations are divided into three categories:

1) **Main stations**, which are so powerful they generally can be received throughout the country of origin and often in neighboring countries. Most broadcasts emanate from these stations.

2) **Regional stations**, which can be received only within a certain region of a country. Broadcasts normally consist partly of original programs and partly of re-transmitted programs of main stations.

3) **Relay and local stations**, which mostly re-transmit main-station programs. These stations have low power ratings and can be heard only within a limited area.

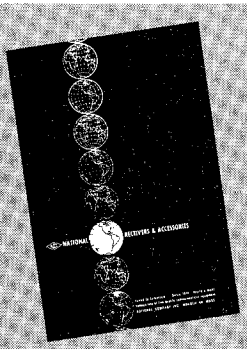
FM stations constitute another category. They give listeners an interference-free reception but they have a short radius and are considered local stations.

Frequency and wavelength. Frequencies are measured in kilocycles per second (kc/s) and megacycles per second (mc/s). A kilocycle is 1,000 cycles; a megacycle is 1,000,000 cycles. Wavelengths are measured in metres (m) and divided into the following groups: long waves, medium waves and short waves (15–30,000 kc/s). The FM band (88–108 mc/s or 87.5–100 mc/s in the European System) and TV band identified by frequency rather than wavelength are in the very high frequency (VHF) range:

TV-frequencies	Band I	Band II
European	41–68	174–223 (mc/s)
American	54–88	174–216 (mc/s)

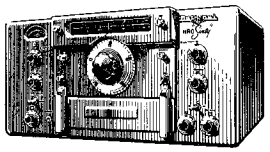
An FM broadcast requires a channel 20 times wider than that used for AM, but a TV transmission of combined picture and sound needs about 6 times the spectrum space occupied by the entire AM medium wave broadcast band.

Continued page 48



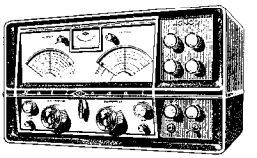
Send for this FREE National Catalog for up-to-date information on America's finest receivers!

Gives Complete Specifications, Full List of Accessories, Latest Prices on these Famous NATIONAL RECEIVERS.



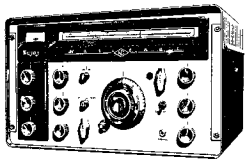
HRO-60

Features widest frequency coverage of any receiver available, 50 kc to 54 mc . . . the world's most famous receiver.



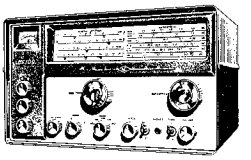
NC-400

National's newest general coverage receiver. Covers 540 kc to 31 mc in 7 bands. 18 tubes (including rectifier) AM-CW-SSB. May be used in fixed channel or diversity operation.



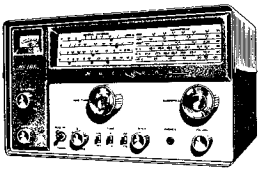
NC-303

National's newest "ham band only" receiver. 10 separate dial scales cover 160 to 1¼ meters. Dual conversion. New 5-position "IF SHIFT" provides optimum selectivity for a CW-PHONE-PHONE NET-VHF-Selectable SSB.



NC-109

America's lowest-priced SSB receiver! Covers 540 kc to 40 mc. National's exclusive "MICROTOME" filter provides 5 degrees of sharp selectivity for all modes of operation. VOICE-CW-SSB.

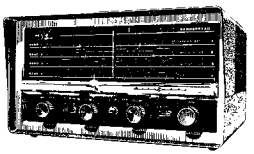


NC-188

Low-priced general coverage receiver. Covers 540 kc to 40 mc, and is directly calibrated for the 4 general coverage ranges and five bandspread ranges for 80-10 meter amateur bands.

NC-66

AC/DC-Battery Portable. Covers 150 kc to 23 mc in 5 bands. Exclusive RDF-66 Direction Finder Accessory provides accurate navigation for small boats.



NC-60

Special "A"

. . . First all-new, low-priced shortwave/standard broadcast receiver in over 10 years! Covers 540 kc to 31 mc in 4 bands. 110 volt AC/DC. Built-in speaker.

FOR THE NAME AND ADDRESS OF THE NATIONAL DISTRIBUTOR NEAREST YOU, AND FOR YOUR FREE COPY OF CATALOG RC-100, WRITE:

National RADIO CO., INC.

MELROSE 76, MASS.

A wholly owned subsidiary of National Co., Inc.

Export: AD AURIEMA, INC.

85 Broad St., New York, N. Y., U. S. A.

In Canada: CANADIAN MARCONI CO., Toronto 17

HOW TO USE THE WRH *continued from page 46.*

Every radio emission has a quantity measurable in both frequency and wave length and since the velocity of propagation in space is, in round figures, 300,000,000 metres per second, any one of the quantities–metres, kilocycles or megacycles – is readily converted into the other forms by means of the following formulae:

Metres to Kilocycles
Metres = 300,000/frequency (kc/s)

Kilocycles to Metres
Kilocycles = 300,000/Wavelength (metres)

Metres to Megacycles
Metres = 300/frequency (mc/s)

Megacycles to Metres
mc/s = 300/Wavelength (metres).

The majority of international short-wave broadcasts will be found on the following metre bands (m.b.): 49 m.b., 41 m.b., 31 m.b., 25 m.b., 19 m.b., 16 m.b., 13 m.b., and 11 m.b. The 31 m.b., 25 m.b., 19 m.b. and 16 m.b. are the most active of the eight bands and some of the most rewarding programs are found here. However, many short-wave stations operate outside these wave lengths. The 60 m.b. and 80 m.b. are used for local broadcasting (reception over relatively short distances), particularly in the USSR, South and Central America, Canada, Australia and in Central Africa, where short-wave broadcasting is an integral part of national domestic broadcasting.

In many parts of the world short-wave transmissions are picked up and re-broadcast from local stations or short-wave relay stations. In many territories, there are wire broadcasting services where the transmissions are centrally received and are then sent out by wire distribution systems. As examples of the last we would mention Hong Kong, which has over sixty thousand wire distribution loudspeakers; and Malta, where there are between forty-five and fifty thousand.

Many programs are broadcast simultaneously from several transmitters on different wave lengths, enabling you to select the band most clearly audible in your area. If reception on one wave length is poor, you should examine conditions on others employed by the same station. On page 24 is a table of the most suitable bands for short-wave reception in every part of the world at various times of day throughout the year. In an article on page 10 T. W. Bennington tells you about the reception conditions of the different bands during 1960.

Program times used in the listings are based on the 24-hour clock. Midnight is 00.00 hrs., 3 a.m. is 03.00 hrs., 9 a.m. is 09.00 hrs. and midday is 12.00 hrs. Then, instead of starting another 12-hour cycle (p.m.), under the 24-hour system the hours increase until midnight. Thus 3 p.m. is 15.00 hrs., 10 p.m. is 22.00 hrs., and so on until 23.59 hrs. (11:59 p.m.) is reached and a new 24-hour cycle starts. The system eliminates any possible confusion between times a.m. and times p.m.

Time conversion. All programs are listed in GMT. To find the time when a program can be heard in your area it is necessary to equate both your local time and the time at broadcast point with Greenwich Mean Time (GMT). By referring to the World Time Chart on page 18 you can determine how many hours your local time is ahead or behind GMT. The program listing for each country gives you the same information as regards point of broadcast. Suppose you live in Ottawa (5 hrs. behind GMT) and want to hear a program from Tokyo (9 hrs. ahead of GMT). The broadcast is at 16.00 hrs. local Tokyo time. This reduces to 07.00 hrs. GMT (16.00 hrs.—9 hrs. = 07.00). Remaining problem: when it's 07.00 hrs. GMT what will it be in local Ottawa time? Since Ottawa time is 5 hrs. behind GMT, this figure is subtracted from 07.00 hrs. and gives you 02.00 hrs. So to hear the program broadcast from Tokyo at 16.00 hrs., you must tune in at 02.00 hrs. Ottawa time. Daylight saving time (which adds an hour to local time) and the dates it is in effect in various parts of the world are noted in the World Time Chart. If you are listening at sea you should consult the radio-officer for the difference between ship time at your position and GMT.

Daily programs. Under this heading in the listings you will find information concerning the total broadcasting hours on the different frequencies employed and in the different languages by a particular station, as well as surveys of the news and in many cases other fixed programs of interest such as national music, mailbag, language lessons, weather reports, program previews, time signals, etc.

Identification of stations. Language alone is not conclusive evidence of a station's nationality since international stations often beam broadcasts to foreign areas in the language of the listeners. Hearing a program in French or Spanish, for example, does not necessarily mean the station is French or Spanish. To make sure of correctly identifying a station it is necessary to wait for the identification announcement which every station broadcasts at regular intervals. Call signs and other means of identification are given in this book for practically all stations listed.

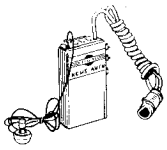
For identifying stations it also is important to know the signals used during the intervals between programs. Under each station, therefore, you will find an indication of the type of signal used, and in many cases a reproduction of the musical notes of the signal. Quite often one transmitter uses several wavelengths, as noted above, and employs different aerials designed to radiate signals to the best advantage in respect of each service. The various call signs sometimes are used in these instances to identify individual wavelengths.

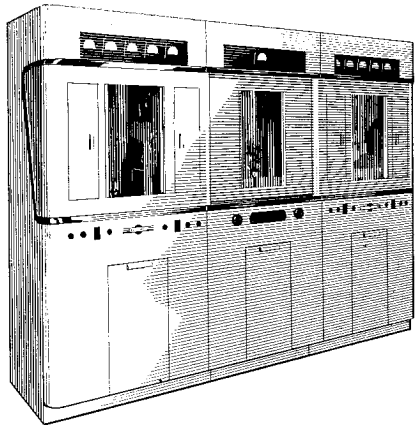
The second section of this book, beginning on page 181, lists long-, medium- and short-wave stations according to frequency and wavelength. The information includes call signs, location of station or stations on a given frequency and station power in terms of kilowatts.

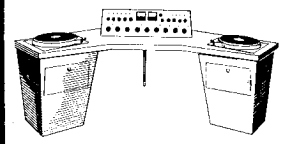
How to identify a station by frequency or wavelength:

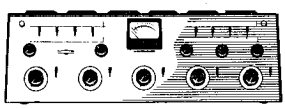
When you come across a station that is unknown to you, proceed as follows for identification: read the approximate frequency or wavelength indicated on your dial. Next, turn to the table beginning on

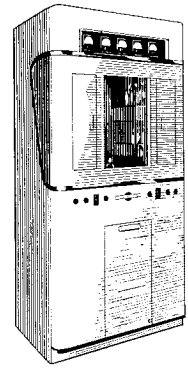
Continued page 50.











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your one complete source for quality broadcasting equipment

Collins' equipment is designed for economical, high fidelity radio broadcasting. Collins high fidelity transmitters deliver greater audio range with minimum distortion. Typical audio frequency response is within ±1.5 db from 30 to 15,000 cps. Distortion is less than 3% from 30 to 15,000 cps for 95% modulation. And Collins has it all — a complete radio station — from microphone to antenna — your complete broadcast equipment source.

AM TRANSMITTERS

21E/M 5/10 kw Transmitters—feature for feature the most economical transmitter available, extremely stable vacuum type crystals eliminate need for crystal ovens. Conservatively rated components, easy access to all components, forced air cooling, long tube life, compact size. Circuitry is simplified, with only ten tube types in the 21E/M.

20V 1000/500 watt, 550A 500/250 watt, 300J 250/100 watt Transmitters — each housed in a single identical cabinet. Same fine features as 21E/M.

POWER INCREASE PACKAGES

Increase 300J, 550A, 21E Power Overnight — That's as long as it takes to install the Collins Power Increase Package. You don't lose a minute of commercial time — start with sign-off and by sign-on the next day you operate the 300 J at 500 or 1,000 watts, 550A at 1,000 watts, the 21E at 10,000 watts. This money-saving service is typical of the advanced design and quality engineering in all Collins Broadcast Equipment.

SPEECH INPUT CONSOLES

212F and 212E—supply complete control over simultaneous broadcasting and auditioning. 212F single channel from any of 12 possible inputs. 212E dual channel from 22 possible inputs. Both monitor program and remote lines, control speakers and warning lights.

REMOTE AMPLIFIERS

212Z—lightweight, ruggedly constructed remote four-channel transistorized unit weighs only 22 lbs. with batteries, comes in typewriter size carrying case. Built-in tone oscillator for line level set up and automatic power changeover.

Micromote Transistorized Remote Amplifier — Weighs only 10 oz. complete. Fits into coat pocket or on belt. Contains six transistors and four 200-hour mercury batteries. Comes complete with ear-plug head phone and with or without Turner 58A lavalier microphone.

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TT-400/200—3 moving parts in drive mechanism; 3 speed selector; unique 7″ indentation for 45 rpm discs. Available in 16″ 4-pole (TT-400) or synchronous (TT-400S) and 12″ 4-pole (TT-200) or synchronous (TT-200S).

Custom Control Desk—Individually designed to your requirements at low cost. Ask for a proposal.

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COLLINS RADIO COMPANY OF CANADA, LTD., 11 Bermondsey Road, Toronto, Ontario, Canada

epi

International Evangelical Radio Station
Emetteur Protestant International (EPI)
Internationaler Evangelischer Radiosender
Internationell Protestantisk Radiosändare

THE PROJECTED EUROPEAN PROTESTANT RADIO STATION IN SWITZERLAND BROADCASTING THE GOSPEL IN:

Arabic, Bulgarian, Czech-Slovak, Danish, Dutch, English, Esperanto, Finnish, French, German, Hebrew, Hungarian, Italian, Norwegian, Polish, Portuguese, Rumanian, Russian, Slovene, Spanish, Swedish.

- It is intended to broadcast 8 hours daily over several wave bands in sufficient power to cover all European countries and beyond.
- Leaders of State Churches and Free Evangelical Churches in 58 nations have given their support to the project.
- The Station will be under the supervision of an Interdenominational European Committee.

Details regarding this project are issued in "epi news service" (German, French, Italian, Dutch and Spanish editions are also available). For further information and FREE Radio Brochure, write to:

E. P. I. – P. O. Box 392, BERNE 2 (Switzerland).

HOW TO USE THE WHR *continued from page 48*

page 184 and ascertain what stations are working in that neighbourhood. When you have narrowed the field to one or two possibilities and have noted details of the program and language, check these data against the program listings to determine whether the station is scheduled to be broadcasting at that time and the type of program listed. For confirmation it is advisable to wait for the station announcement or interval signal.

Verification by QSL-cards. As indicated in the program listings for the various countries, many stations are interested in receiving reports from listeners about their transmissions. These stations acknowledge reports by sending listeners a QSL-card (verification) or letter. Most listings indicate whether a station uses QSL-cards or answers by letter, and when return postage is required this is stated also. Return postage should be sent in the form of an International Reply Coupon, obtainable at post offices in the 99 countries of the International Postal Union. Reports should be sent to the station address as given in the program listings. They can be written in English in most cases, but Spanish is preferred by South and Central American stations.

The new edition of How To Listen To The World (see adv. page 01) gives all necessary information about how to write reports to stations.

International television stations and programs for all parts of the world are listed in the section of this book beginning on page 170.

Other useful information includes a list of stations devoted to time signals and frequency-standards broadcasts on page 40, and an index to broadcasting organizations and religious broadcasting organizations incl. a list of missionary stations on the pages 28.

The reception reports mentioned above are particulary useful to radio engineers in selecting the most suitable wave lengths for broadcasts beamed to your area. Reports are more meaningful if the SINPO or "555" code is used. The codes are as follows:

SINPO-code					"555"-code		
S	I	N	P	O	S	I	O
					0 inaudible	0 very strong	0 nil
5 excellent	5 nil	5 nil	5 nil	5 excellent	1 very weak	1 strong	1 very poor
4 good	4 slight	4 slight	4 slight	4 good	2 weak	2 fairly strong	2 poor
3 fair	3 moderate	3 moderate	3 moderate	3 fair	3 fairly strong	3 weak	3 fair
2 poor	2 severe	2 severe	2 severe	2 poor	4 strong	4 very weak	4 good
1 barely aud.	1 extreme	1 extreme	1 extreme	1 unusable	5 very strong	5 none	5 very good

S = Signal strength. I = interference. N = noise.
P = propagation disturbance. O = Overall merit.

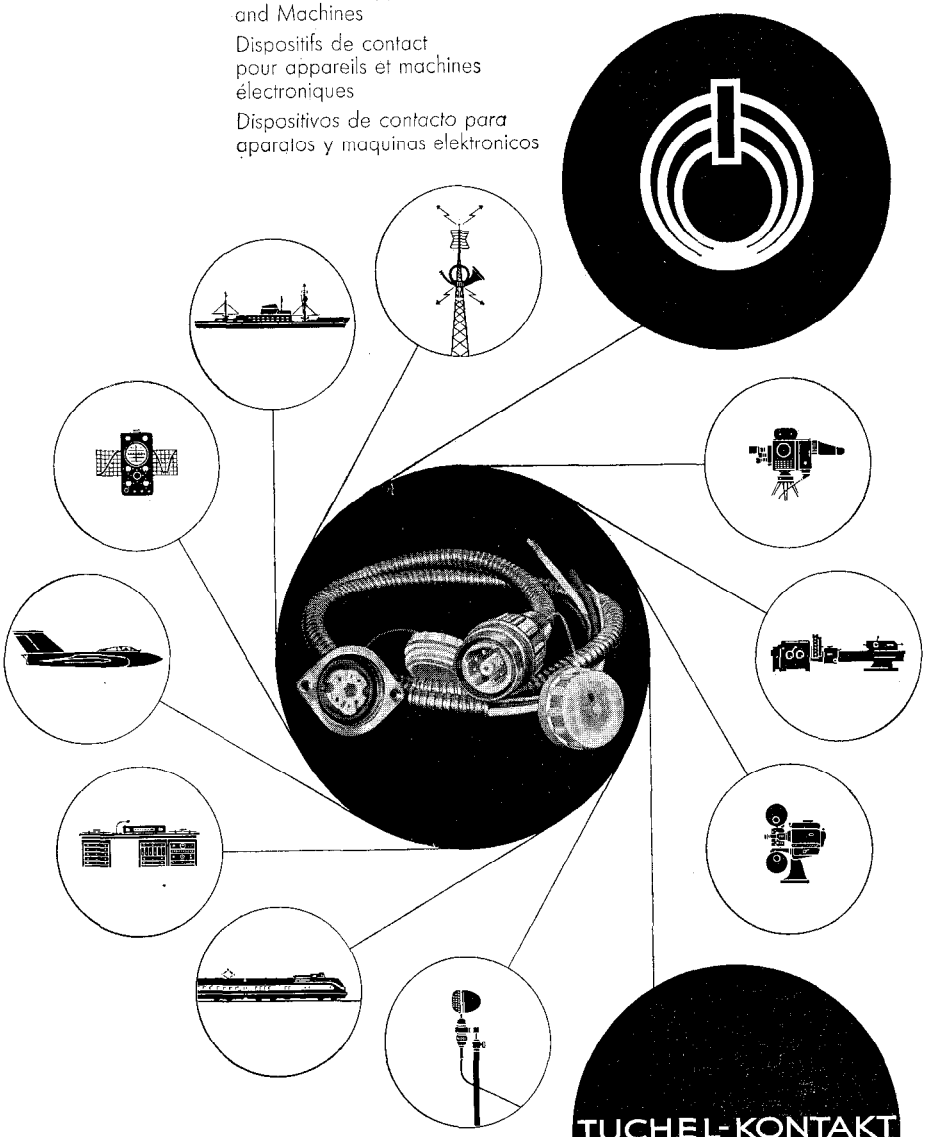
Example: 543 means a very strong signal with weak interference reducing the overall reception merit to fair.

Kontakteinrichtungen
für elektronische Apparate
und Maschinen

Contact Equipments
for Elektronic Apparatuses
and Machines

Dispositifs de contact
pour appareils et machines
électroniques

Dispositivos de contacto para
aparatos y maquinas elektronicos



TUCHEL-KONTAKT
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Tel.: 85890
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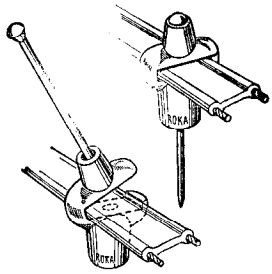
Listen to

the Voice of the Andes

International Missionary
Radio Station HCJB
located at Quito, Ecuador
South America.

For full details see ECUADOR



ROKA

Little Berliners

The surprisingly simple and inexpensive indoor-isolators for 300 Ohm twin-lead.

Unbreakable,
symmetrical,
no loose parts,
safe

ROKA ROBERT KARST
Berlin-SW. 29. (U.S. Sector)

Last minute corrections informations. See enclosed leaf.

For your attention: If you like the WRH and its purpose write to World Radio Handbook, Lindorffsallé 1, Hellerup, Denmark, for brochures to send interested friends and connections. Your valuable assistance to make the WRH known as much as possible will be very much appreciated and will support the promotion of the understanding between the peoples of the World.

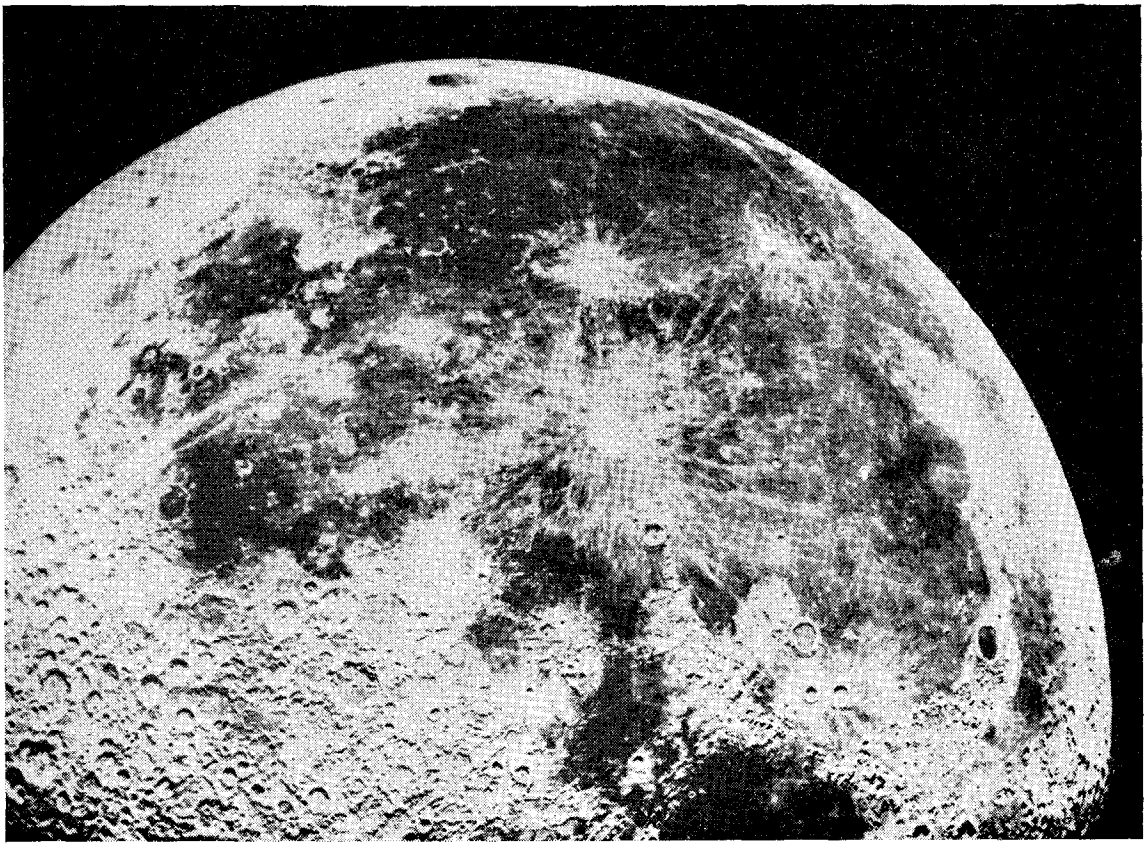
THE SPREAD OF TELEVISION

1 Number of TV stations.
2 Number of TV receivers.
3 Definition. – AFRT Sce. stations not included

	1	2	3
Algeria	3	35.000	819
Argentina	1	350.000	525
Austria	15	100.000	625
Australia	16[1]	599.218	625
Belgium	5	400.000	811 625
Bermuda	1	8.000	525
Brazil	26	850.000	525
Bulgaria	1	1.500	625
Canada	74[2]	3.600.000[3]	525
China (P.R.)	4	11.000	625
Colombia	12	150.000	525
Costa Rica	1		525
Cuba	23	350.000	525
Curacao	0	2.000	525
Cyprus	1	3.000	625
Czechoslov.	7	373.000	625
Denmark	7	350.000	625
Dominic. R.	4	7.500	525
El Salvador	2	16.000	525
Finland	7	19.200	625
France	49	1.240.371	819
Germany F.R.	105	2.700.000	625
Germany D.R.	11	500.000	625
Gt. Britain	28[4]	9.627.657	405
Guatemala	2	20.000	525
Hawaii	8	150.000	525
Holland	6	450.000	625
Hong Kong		3.000	
Hungary	2	30.000	625
Iran	1	8.000	625
Ireland	0	30.000	
Iraq	1	10.000	625
Italy	334	2.000.000	625
Japan	89[5]	2.100.000	525
Kuwait	1	600	625
Korea, So.	1	6.500	525
Lebanon	1	7.500	625
Luxembourg	1	5.000	819
Marianas Isl.	1	123.000	525
Malta	0	6.000	
Mexico	63	5.000.000	525
Monaco	1	11.000	819
Nicaragua	1	6.000	525
Nigeria	1	1.000	625
Norway	1	2.000	625
Panama	3	8.000	525
Peru	3	28.000	525
Philippines	2	23.000	525
Poland	6	220.000	625
Portugal	5	32.000	625
Puerto Rico	7	500.000	525
Rumania	3	22.000	625
Ryukyu Isl.	1		525
Saudi Arabia	1	2.800	525
Spain	6	60.000	625
Sweden	32[6]	465.000	625
Switzerland	7	67.878	625
Thailand	2	38.000	525
Turkey	1	1.000	625
Uruguay	2	15.000	525
USA	780[7]	50.00.000	525
USSR	91[8]	2.600.000	625
Venezuela	15	200.000	625
Yugoslavia	5	12.000	625

[1]) ABC 6 Private 10.
[2]) CBC 15 (4 not in operation), 3 satellites. Private 45 (2 not in operation, 1 satellite (4 not in operation).
[3]) Incl. 100.000 Sets in public places.
[4]) BBC 20 Comm. 8.
[5]) NHK 40 Private 49.
[6]) In operation at the end of 1959.
[7]) Educational 43. Comm. 569. Translator 168.
[8]) Incl. relay/stationss

FRESH WORLDS TO CONQUER.....



In developing new and improved types of CRT's, valves and semiconductors for radiocommunication we are never at a loss for fresh worlds to conquer. Every step forward opens up broader horizons.

From the earliest days of the radio industry we have been helping to solve the problems of scientist and setmaker.

Now would be a good time to bring Siemens Ediswan into *your* programme for tomorrow.

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International Quarterly of Mass Communications Studies

Press – Radio – Television – Propaganda
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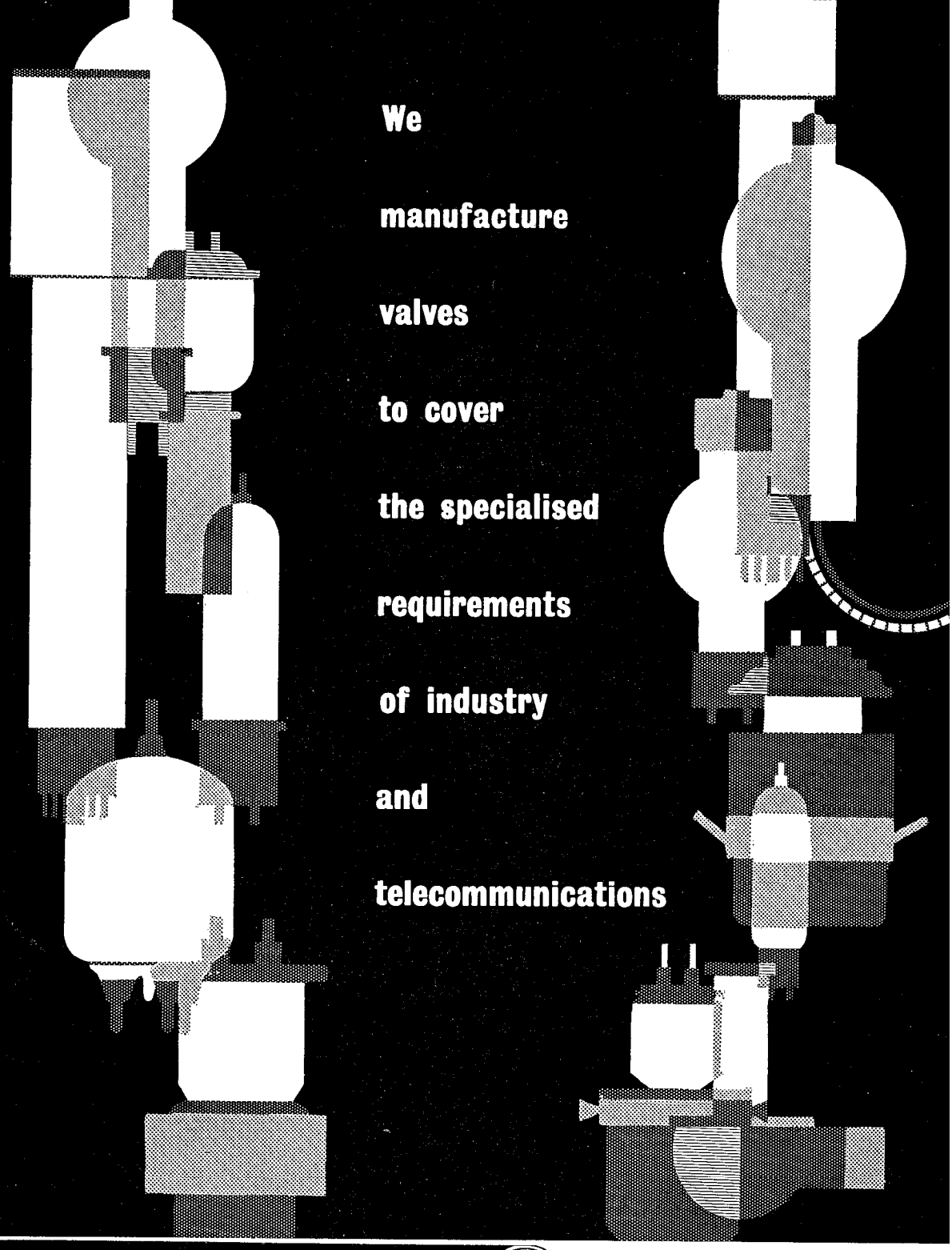
ABBREVIATIONS:

Addr. = Address
ABC = Australian Broadc. Comm.
AC = Alternating electrical current
Adm. = Administrator.
Af = Africa
AFN = American Forces Network
AFRTS = Armed Forces Radio and Television Service
AIR = All India Radio
Am. = America
A.M. = Amplitude modulation
Ann. = Announcement
Approx. = Approximately
Apr. = April
Apt. = Apartado
As. = Asia
Asst. = Assistant
Au. = Australia
Aug. = August
Av. = Avenue, Avenida
BBC. = British Broadc. Corp.
Bldg. = Building
B.P. = Boîte Postale
Br. = British
Broadc. = Broadcasting
BR. = Bayerischer Rundfunk
BWI = British West Indies
C = Central
Ca. = Calle
Cal. = California
CBC. = Canadian Broadc. Corp.
Ch. = Channel
Chi. = Chinese
Ci = Ciudad
Co. = Congo
Com. = Commercial
Corp. = Corporation
c/s = Cycles per second
D. = Daily
d. = Directional aerial
D.C. = Direct electrical current
DDR = German Democratic Rep.
Dec. = December
Def. = Definition
Dep. = Deputy
Dir. = Director, Direction
Dir.Gen. = Director General
DX = Long distance
E. = English
Ea. = East
E. C. = Electric Current
E. by R. = English by Radio
Ed. = Edificio
Eng. = Engineer
Equ. = Equatorial
ERP = Effective radiated power
Eu. = Europe
exc. = Except
exp. = Experimental
F. = French
FCC = Federal Communications Commission
F.E. = Far East
Feb. = February
F.I. = Faeroe Islands
Fi. = Finnish
Fl. = Flemish
F.M. = Frequency modulation
F.Pl. = Future plans
For. Rel. = Foreign Relations
Fri. = Friday
Freq. = Frequency
G. = German
Gen.Mgr. = General Manager
G.M.T. = Greenwich Mean Time
Go. = Government
Gr. = Greek
h. = Hour
H. = Horizontal polarisation
I. = Italian
In. = India
Ind. = Indonesia, Indonesian
Inf. = Information
Int. = International
Int.Sig. = Interval Signal
Icl. = Iceland
Jan. = January
Ja. = Japanese
K. = Korean
kc/s = Kilocycles
kW = Kilowatt
L.P. = Leading Personality(ies)
L. = Language
L.T. = Local Time
L.N. = Local News
L.L. = Language Lessons
Man. = Managing
M.E. = Middle East (Near East)
Mgr. = Manager
Mo. = Monday
m.b. = Meter band
Mbg. = Mailbag
M.W. = Medium Wave
N. = News
Nat. = National
Net. = Network
N.E. = Near East
N.H.K. = Nippon Hoso Kyokai
No. = North
Nov. = November
N.Z. = New Zealand
O. = Owner
occ. = Occasionally
Oct. = October
org. = Organization
P. = Portuguese
Pa. = Pacific
Per. = Period
Po. = Pupulation
Pro. = Province
Pr. = Private
Pr. L. = Principal Languages
Pres. = President
Prgr. = Programme
Pub. = Publication
QSL = Verification
R. = Radio
Dept. = Department
Rcvrs. = Number of receivers
Rdif. = Radiodifusora
Red. = Rediffusion
Reg. = Regional
Rel. = Relay
Rep. = Repeat. Repetition
RIAS = Rundfunk im am. Sektor
R.p. = Return postage required
Sat. = Saturday
Sce. = Service
sched. = Schedule
Secr. = Secretary
Sep. = September
So. = South
SORAFOM = Société de Radiodiffusion de la France d'Outre Mer
So.W. = South West
Sp. = Spanish, Spain
St. = Station
Str. = Street
Su. = Summer
Sun. = Sunday
S.W. = Shortwave
Sw. = Sweden, Swedish
SWF = Südwestfunk
Tec. = Technic
Thurs. = Thursday
Tr. = Transmitter, transmission
Tues. = Tuesday
T.V. = Television
UAR = United Arab Republic
USSR = Union of the Soviet Socialist Republics
V. = Vertical polarisation
V. = Verification
Vis. = Visayan
VOA = Voice of America
W. = Weekdays
We. = West
Wed. = Wednesday
Wi. = Winter
Wrp. = Weather report



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★ ALBANIA ★

L.T.: GMT+1 h. Pr.L.: Albanian. – Po.: 1.421.000. – Rcvrs.: 25.000. – E.C.: 220/380 V., A.C., 50 c/s.

R. TIRANA (Go.)

ADDR.: Direction Centrale de la Radiodiffusion d'Albanie, Rue Conference de Peza 3, Tirana. – L.P.: Dir.: P. Kito.

HOME SCE.: 05.00–07.00, 11.00–15.00, 16.00–22.00.

Tirana 1088 kc/s 275.7 m 50 kW – Korça 1349 kc/s 222 m 0.2 kW

N.: 05.30, 14.00, 17.00, 18.00 (rel. R. Moscow), 19.00, 21.00. –

FOREIGN SCE.: Tirana: 18.00–23.00.

7157 kc/s 41.92 m 3 kW – 7850 kc/s 38.20 m 3 kW

9610 kc/s 31.22 m 3 kW

On 7850 kc/s: 18.00 Albanian. – On 7157, 7850 kc/s: 19.00 Arabic, 20.00 Greek, 20.30 Italian, 21.00 French, 21.30 English. – On 7157 kc/s: 22.00 Serbo-Croat, 22.30–23.00 Greek.

ANN.: "This is Radio Tirana". – INT.-SIG.: 7 musical notes played on piano. – V. by letter.

★ ANDORRA ★

L.T.: GMT+1 h. – Pr.L.: French, Spanish. – Po.: 6.000. – Rcvrs.: 2.000.

RADIO ANDORRA (Pr. Comm.)

ADDR.: Roc des Anelletas, Andorre La Vieille. – L.P.: Dir. Gen.: G. Dahlquist. Dir. Tec.: L. Killmayer.

STATIONS:

998 kc/s 300.6 m 100 kW – 5972 kc/s 50.22 m 25 kW

W.: 06.00–08.00, 11.00–23.00. Sun.: 09.00–23.00. Prgrs. to Spain, Portugal, France, Switzerland, Italy, N. Africa.

ANN.: F.: "Ici Radio Andorre". Sp.: "Aqui Radio Andorra – Roc de les Anneletes, Andorra la Vieja, Principado de Andorra". – INT.-SIG.: Gong low. Open and close with "Hymne National Andorran" and "Marche des Conseillers Andorrans". – V. by QSL-card or letter. R.p.

PUB.: La Voz de Radio Andorra: Monthly. Bulletin d'Informations: Weekly. Free upon request.

ANDORRADIO (Comm.)

ADDR.: P.O. Box 7, Andorre la Vieille. – L.P.: Pres. Adm. Council: Puiggros. Dir. Tec.: G. L. Hemeret. Dir. Adm.: A. Picart.

STATIONS: 818 kc/s 367 m 100 kW – 6305 kc/s 47.58 m 1 kW.

In French, Spanish: W.: 06.00–08.00, 11.00–23.00. Sun.: 08.00–23.00.

INT.-SIG.: Xylophone.

★ AUSTRIA ★

L.T.: GMT + 1 h. – Pr.L.: German. – Po.: 6.900.000. – Rcvrs.: 1.920.000. – E.C.: 110/220, V., A.C., D.C., 50 c/s.

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

ADDR.: Österreichischer Rundfunk, Wien IV, Argentinierstr. 30. – Cable: Rundfunk Wien. – L.P.: Dir. Gen., Adm.: Dr. K. Cejka. Vice Dir., Dir. Tec.: Dipl. Ing. W. Füchsl. Dir. Prgr.: Prof. Dr. A. Übelhör. Dir. T.V.: G. Freund.

STUDIOS: R. Graz: Zusertalgasse 14a, Graz III. – Cable: Radio Graz. P. Goritschnig. – R. Klagenfurt: Sponheimerstr. 13, Klagenfurt. Cable: Radio Klagenfurt, P. Goritschnig. – R. Linz: Obere Donaulände 1, Linz. Cable: Radio Linz. A. Schwetz. – R. Salzburg: Franziskanergasse 5, Salzburg. Cable: Radio Salzburg. Dr. P. Becker. – R. Tirol: Landhaus Neubau, Innsbruck. Cable: Radio Tirol. Dr. J. Scheidle. – R. Vorarlberg: Neues Rathaus, Dornbirn. Cable: Radio Vorarlberg. E. Bohac. – R. Wien: Argentinierstr. 30a, Wien IV. – Cable: Radio Wien. Dr. E. Glaser, H. Hasslinger.

HOME SERVICE

FIRST PRGR.: W.: 04.30–24.00. Sun. 05.00–24.00. Relay 2' Prgr. daily exc. Sat. from 22.00 (Sun. 21.30).

Medium Waves	kc/s	m	kW		kc/s	m	kW
Aldrans I	629	476.9	25	Salzburg I	773	388	1
Lauterach I	629	476.9	25	Linz I	890	337.1	15
Lienz I	629	476.9	1	Graz I	1394	215.2	25
Klagenfurt I	728	412.1	25	Wien I	1475	203.4	150

Low Power M.W. (0.05 kW exc. where indicated):

520 kc/s: Landeck*). – 566 kc/s: Bad Ischl, Braunau, Feistritz (0.1), Greifenburg*), Maria Pfarr, Mühlbach, Radstadt, Zell/See, Feldkirchen, Eisenkappel, Neukirchen – 674 kc/s: Bischofshofen, Bleiburg*), Gloggnitz, Neumarkt, Matrei, Radenthein*) (0.1), Ried (0.1). – 692 kc/s: Admont, Bad Aussee, Gmünd*), Kötschach (0.1), Leoben (0.1), Murau, Mürzzuschlag (0.1), Obervellach, Villach (0.1), Zwettl. – 773 kc/s: Bad St. Leonhard, Hergamor*) (0.1), Lend, Mariazell, Oberdrauburg*), St. Michael/Lungau, Spittal/Drau*) (0.1). – 1052 kc/s: Krems, Neunkirchen. – 1124 kc/s: Bruck/Mur (0.1), Eisenerz (0.1), Hofgastein, Imst, Judenburg (0.1), Kufstein*) (0.015), Mayrhofen, Tamsweg. – 1142 kc/s: Rottenmann. – 1313 kc/s: Kindberg, Friesach, Knittelfeld (0.1), Liezen, Völkermarkt, Wolfsberg, Haslach. – 1457 kc/s: Amstetten, Schruns, Wr. Neustadt. – 1484 kc/s: St. Pölten (0.2). – 1493 kc/s: Kitzbühel*), Mittersill, Reutte, Saalfelden, Schwarzach, Windischgarsten*) (0.035), Wörgl, Bludenz*) (0.03).

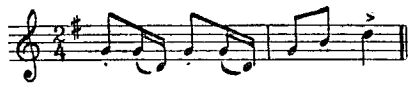
*) operated by the postal adm.

FM	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel	12	90.63	0.1	Gaisberg	26	94.8	50
Patscherkofel	17	92.1	50	Schöckl	28	95.4	50
Schmittenhöhe	18	92.4	0.01	Kahlenberg	29	95.8	50
Pyramidenkogel	20	93.0	10	Jauerling	35	97.5	50
Pfänder	21	93.3	50	Sonnwendstein	37	98.1	2.5

N.: W. 04.45, 05.45, 06.45, 11.30, 16.00, 19.00, 21.00, 22.00 (Mo.-Fri.), 23.00 (exc. Sat.), 24.00 (Sat.) Sun. 10.30. –

Slovenian (Klagenfurt only): Mo.-Fri. 13.00.

ANN.: "Hier ist der Österreichische Rundfunk, Erstes Programm, von Radio... (name of studio) hören Sie...". INT.-SIG.: Extract from ballet-music from "Rosamunde" by Franz Schubert.



SECOND PRGR.: W. 04.30–24.00. Sun. 05.00–24.00.

Medium Waves	kc/s	m	kW		kc/s	m	kW
Aldrans II	520	576.9	10	Wien II	584	513.7	150
Lienz II	520	576.9	10	Dobl	1025	292.7	100
Klagenfurt II	584	513.7	25	Kronstorf	1025	292.7	100
Salzburg II	584	513.7	10	Lauterach II	1025	292.7	10

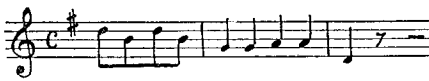
FM:

Jauerling ch.24 94.3 mc 15 kW – Stubnerkogel ch.34 97.23 mc 0.1 kW.

N., Wrp.: W. 05.00, 06.00, 07.00, 12.00, 16.00, 18.00, 21.00, 22.00 (Mo.–Fri.), 23.00. Sun.: 05.00, 06.00, 09.00, 12.00, 16.00, 18.00, 21.00, 23.00.

Mbg.: Mo., Wed., Fri. 06.10. – Two-way exch. prgr. with Paris and Saabrücken ("An der schönen blauen Donau"): Sun. 21.30 – Two way exch. prgr. with RAI ("Hallo Rom, Hallo Wien"): Wed. 22.15 once a month.

ANN.: "Hier ist der Österreichische Rundfunk, Zweites Programm, von Radio... (name of studio) hören Sie...". – INT.-SIG.: Extract from Opera "Die Zauberflöte" by W. A. Mozart.

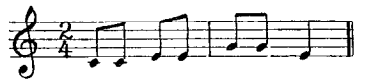


THIRD PRGR.: W. 16.55 (Sun. 17.00)–22.10. – Relay 2nd Prgr.: W. 04.30–05.00, 08.00 (Sat. 09.00)–10.00 & 11.03–11.55. – Light music, advertisements: W. 05.00–08.00 (Sat. 09.00), 10.00–11.03, 12.00–16.00 (exc. Sun.).

FM-ST.	ch.	mc/s	kW		ch.	mc/s	kW
Stubnerkogel III	3	87.9	0.1	Pfänder	9	89.7	3
Sonnwendstein II	4	88.2	2.5	Schöckl II	14	91.2	50
Patscherkofel II	5	88.5	50	Pyramidenkgl. II	36	97.8	10
Jauerling II	6	88.8	50	Gaisberg II	40	99.0	50
Schmittenhöhe II	6	88.8	0.01	Linz	41	99.3	1
				Kahlenberg II	43	99.9	50

N., Wrp.: Sun. 05.00, 06.00, 09.00, 12.00, 16.00. D. 20.00, 22.00. – Two-way exch. prgr. with France ("Seine-Donau") and Gt. Britain ("Thames-Donau"): Mo. 19.30 (New music), Fri. 19.00 ("Famous conductors").

ANN.: "Hier ist der Österreichische Rundfunk, Drittes Programm, von Radio... (name of studio) hören Sie...." – INT.-SIG.: Extract from G-major Symphony with the kettle drum beats by Joseph Haydn.



PUB.: "Radio Österreich", weekly prgr.sched. Four times a year: "Aus dem Programm" – free on request.

SHORT WAVE TRANSMISSIONS

	Prgr.	kc/s	m	kW	
OEI30 Kronstorf	II	5985	50.13	4	07.00–09.00, 13.00–16.00
OEI20 Innsbruck	I	6000	50.00	0.4	04.30–24.00
OEI21 Wien	I	6155	48.74	0.2	04.30–24.00
OEI31 Wien	II	7135	42.05	0.3	09.00–12.55
OEI22 Kronstorf	II	7245	41.41	4	00.30–02.30**, 09.30–12.30
OEI22 Wien	II	7245	41.41	0.3	04.30–08.55, 17.00–23.55
OEI32 Wien	II	9505	31.56	0.3	16.00–18.55
OEI33 Wien	II	9615	31.20	0.3	05.00–06.55
OEI23 Wien	II	9665	31.04	0.3	07.00–16.00, 19.00–24.00

		Prgr.	kc/s	m	kW	
OEI46	Kronstorf	II	9670	31.02	4	16.00–19.00
OEI35	Wien	I	11775	25.48	0.2	17.00–17.55
OEI24	Wien	I	11785	25.46	0.2	04.30–16.55, 18.00–24.00
OEI36	Wien		11935	25.14	0.2	02.30–04.55**
OEI37	Wien	II	17795	16.86	0.03	13.00–15.00, 16.00–18.00
OEI38	Fleckend. II*		25615	11.71	20	07.00–09.00

*operated by postal administration. **Special prgr. for abroad.
V. by QSL-card or letter. – PUB.: "Radio Österreich", weekly.

★ AZORES (Portuguese) ★

L.T.: GMT ÷ 2 h. (Su. ÷ 1 h.). Pr. L.: Portuguese. – Po.: 317.409. – E.C.: 110/220 V, A.C. 50 c/s.

EMISSOR REGIONAL DOS ACORES (Go.)
ADDR.: Av. Gaspar Fructuoso, Ponta Delgada. S. Miguel.
L.P.: Dir. Tec.: C. C. L. Araujo.
HOME SCE.: CSA97 4865 kc/s 61.66 m 1 kW: 14.00–15.00, 20.00–24.00. – N.: 14.30, 22.30. –
ANN.: "Aqui Portugal, Ponta Delgada, Emissor Reg. dos Acores da Emissora Nacional". – INT.-SIG.: Chimes. – V. by letter or QSL-card.

RADIO CLUBE DE ANGRA (Comm.)
ADDR.: Rua Conselheiro Anastacio de Bettencourt, Angra do Heroismo, Ilha Terceira. – L.P.: Dir. Tec.: J. E. L. Fernandes.
HOME SCE.: 1394 kc/s 215.2 m 0.15 kW. W.: 20.00–23.00. Sun. 12.00–16.00.

EMISSORA DO CLUBE ASAS DO ATLANTICO (Comm.)
ADDR.: Aeroporto de Santa Maria. – L.P.: Dir. Tec.: A. Frazao.
HOME SCE.: D.: 13.00–15.00, 18.00–24.00. CSB81 1571 kc/s 191 m 1 kW. – N.: 24.00. – Wrp.: 21.00, 24.00.
ANN.: "Aqui Santa Maria. Fala a Estacao Emissora do Clube Asas do Atlantico". – INT.-SIG.: Opens with music played on a Portuguese string instrument (viola) and a guitar. – V. by post-card.

ARMED FORCES RADIO TELEVISION SCE. (see USA)

★ BELGIUM ★

L.T.: GMT + 1 h. – Pr. L.: French, Flemish. – Po.: 9.000.000. – Rcvrs.: 2.500.000. – E.C.: 110/220 V., A.C. (D.C. 110 V.), 50 c/s.

BELGIAN NATIONAL BROADCASTING SERVICE (Go.)
ADDR.: Institut National Belge de Radiodiffusion, Place Eugène Flagey 18, Bruxelles. Cable: I.N.R. Bruxelles. – L.P.: Fl. Dept.: Dir. Gen.: J. Boon. Dep. Dir. Gen.: R. Brulez. Fr. Dept.: Dir. Gen. a.i.: F. Hoosemans. Dep. Dir. Gen. a.i.: H. Masson. Tec. Dept.: Dir. Gen.: F. Mortiaux. Dep. Dir. Gen.: G. Gourski. Dir. Adm.: A. Nossent.

HOME SERVICE

FRENCH Network:

Bruxelles I (Nat.)	620 kc/s	483.9 m	150 kW
Bruxelles IV (Reg.)	1124 –	266.9 –	10 – *)
FM Bruxelles	95.4 mc/s		2 –

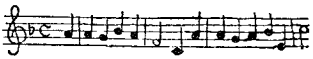
*) Prgrs. from studios in Mons, Namur, Liège.
620 kc/s: W. 05.30–22.00 (Sat. 23.00). Sun. 05.30–23.00. – N., Wrp.: 06.00, 07.00, 08.55, 12.00, 18.30, 21.00, 21.55. Sat. & Sun. 22.55. – Wrp.: 11.30.
1124 kc/s: 09.00–14.30, 17.00–22.00. – German: W. 16.20–16.50.
FM (rel. 620 kc/s): Sun. 12.00–23.00. Wed., Fri. 12.00–22.00.

FLEMISH Network:

Bruxelles II (Nat.)	926 kc/s	324.0 m	150 kW
Bruxelles III (Reg.)	1511 –	198.5 –	20 – **)
FM Bruxelles	95.4 mc/s		2 –

**) Prgrs. from studios in Kortrijk, Ghent, Antwerp, Hasselt.
926 kc/s: W. 05.30–22.00 (Sat. 23.00). Sun. 05.30–23.00. – N., Wrp.: 06.00, 07.00, 08.00, 12.00, 18.00, 21.00, 22.00. – Wrp.: 05.30, 11.30. – 1511 kc/s: 09.00–13.00, 15.30–22.00.
FM (rel. 926 kc/s): Mo., Tues., Thurs. 12.00–22.00. Sat. 12.00–23.00.
ANN.: F.: "Ici Bruxelles, Radiodiffusion Nationale Belge". – Fl.: "Hier Brussel, de Belgische Nationale Radioomroep". E.: "Here Brussels, the Belgian National Broadcasting Station".
INT.-SIG.: F. Network: Extract from Grety's famous melody "Ou peut-on être mieux".

Fl. Network: The first movement of "Beiaardlied" (Extract from Rubens' cantata by Peter Benoit).



V. by QSL-card or letter. – PUB.: "De Radio and Televisieweek" and "Micro-Magazine-Television" (weekly).

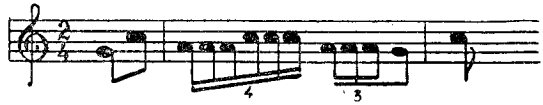
INTERNATIONAL SERVICE
ADDR.: Direction of Overseas Service and International Rel. of the INR/NIR – 18, Place Eugène Flagey, Brussels (for listeners and QSL-cards: P.O. Box 26, Brussels I. – Cable: I.N.R. Mondial. – L.P.: Dir.: M. F. Zoete. Heads.: International Rel.: L. Wallenborn. Transcription: M. Swaenepoel. Transmissions: H. de Thier.
STATIONS: ORU, Wavre. ORU 3/ORU 4 = 100 kW. ORU 5 = 20 kW – OTC, Leopoldville, Belg. Congo = 50 kW.

OTC	9655 kc/s	31.07 m		ORU 3/4	15335 kc/s	–	19.56 m
ORU 3	9705 –	30.91 –		ORU 5	15340	–	19.56 –
ORU 3/5	9745 –	30.78 –		ORU 3/4	17845	–	16.81 –
ORU 5	11720 –	25.60 –		ORU 3	17860	–	16.79 –
ORU 4	11850 –	25.32 –		ORU 4	21510	–	13.94 –
ORU 5	15280 –	19.63 –		ORU 3/5	21730	–	13.80 –

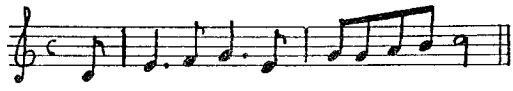
I = Africa; II = Far East; III = So. Europe; IV = No. America; V = So. America; VII = No. + So. America.

Time	L.	Areas	1/11– 28/2 m.b.	1/3– 30/4 m.b.	1/5– 31/8 m.b.	1/9– 31/10 m.b.	
10.00–12.15	F/Fl	I	16	16–13	16–13	16–13	
10.00–12.00	F/Fl	I	13	13	13	13	
12.15–13.00	F/Fl	I	16	13	13	13	a)
		II	16	16	16	16	a)
		III	19	19	19	19	a)
13.30–15.00	F/Fl	I	16–13	16–13	16–13	16–13	b)
15.00–16.45	Fl	I	16	13	13	13	b)
	F		13	16–13	16–13	16–13	b)
17.00–17.15	Fl/F	I	16	13	13	13	
17.15–18.00	F/Fl	I	16	13	13	13	a)
17.00–17.45	F/Fl	IV	19	19	19	19	a)
		III	25	25	25	25	a)
18.00–21.00	F/Fl	I	19–16	19–16	16–13	19–16–13	c)
21.15–23.00	F/Fl/E	V	25	25	25	25	d)
		IV	19	19	19	19	d)
		III	25	25	19	25	d)
23.15–01.00	Fl/F/E	IV	25	25	25	25	d)
		I	31	31	31	31	d)
		IV + V	31	31	31	31	d)

a) For missionaries and seamen (alternatively in French or Flemish).
b) Sport and music (Sun. only).
c) Tues. 19.30–21.00 French on 17.860, 15.340 kc/s, Flemish on 17.845 kc/s.
d) For Belgian Seamen and Belgians in the world: Belgian Magazine (prgr. in English rel. by OTC/Leopoldville): Sun., Tues., Thurs., Fri.: 22.30–23.00. 00.30–01.00. Mo. 00.30–01.00. Sat. 23.15–01.00
ANN.: F.: "Ici Bruxelles, Service d'ondes courtes de la Radiodiffusion Nationale Belge" – Fl.: "Hier Brussel de kortegolfuitzendingen van de Belgische Nationale Omroep."
STARTING SIG.: Xylophone.



INT.-SIG.: Chime. First bars of "Vers 1' Avenir". – V. by QSL-card.



★ BULGARIA ★

L.T.: GMT+2 h. – Pr. L.: Bulgarian. – Po.: 7.593.000. – Rcvrs.: 570.000. – E.C.: 150/220 V, A.C., 50 c/s.
ADDR.: Bulgarian Broadcasting at the Ministry of Education and Culture, 4 Dragan Zankov Str., Sofia. Cable: Bolgarradio.
HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Sofia II	593	506	60	Stara Zagora	1223	235	20
Sofia I	827	362.7	100	Pavlovo	1484	202	2
Varna	1124	267	5	Sofia III	7670	39.11	50

03.25–08.37 on 593, 1124, 1223, 1484 kc/s.
08.37–09.55 on 827, 7670 kc/s.
09.55–14.55 on 593, 827, 1124, 1223, 7670 kc/s.
14.55–20.30 on 593, 1484 kc/s.
20.30–22.00 on 593, 1124, 1223, 1484 kc/s.
N.: 03.30, 04.30, 08.30, 10.30, 14.00, 16.00, 18.30, 20.30, 21.45.
Wrp.: 03.40, 10.45, 18.45.
FOREIGN SERVICE:

593 kc/s	506.0 m	60 kW		1124 kc/s	267	m	5 kW
827 –	362.7 –	100 –		1223 –	245	–	20 –

6070 kc/s	49.92 m	120 kW
7255 –	41.35 –	120 –
7670 kc/s	39.11 m	50 kW
9700 –	30.93 –	120 –
11850 –	25.32 –	120 –

TO EUROPE & M. EAST

Arabic	kc/s
11.30–11.55	9700, 11850
17.00–17.55	7670, 9700, 11850
19.30–20.00	7255, 7670
Bulgarian	
12.30–12.45	9700, 11850
22.15–22.25	7670, 9700
English	
19.35–20.00	9700
21.30–22.00	7255, 7670, 9700
23.35–24.00[1])	9700 (music)
Esperanto	
19.00–19.25[2])	7255, 7670
22.30–22.55[2])	7255, 7670, 9700
French[3])	
19.00–19.30	6070, 7670
21.00–21.30	6070, 7670
German	
20.05–20.55	6070, 7670
Greek	
06.00–06.30	827, 7670
12.00–12.25	7255, 9700
16.00–16.25	7255, 7670, 9700
19.00–19.25[3])	7255
20.30–21.00	827
Italian	
18.30–19.00	6070
20.00–20.30	7255
21.00–21.30	827
Macedonian	
04.30–05.00[3])	827, 7670
06.30–07.30[2])	827, 7670
Serbo-Croatian	
05.00–05.30[3])	827, 7670
07.30–08.30[2])	827, 7670
18.00–18.25	6070, 7255, 7670
21.30–22.00	827
Spanish	
22.30–22.55[4])	7255, 7670, 9700
00.00–00.25[5])	7670, 11850
Turkish	
05.30–06.00	827, 1124, 1223, 7670
15.30–16.00	7255, 7670, 9700
16.30–17.00	9700
18.30–19.00	7255, 7670

NO. AMERICAN SERVICE

Bulgarian	kc/s
00.00–00.30	9700
English	
23.35–24.00[6])	9700 (music)
01.00–01.30	9700
04.00–04.30	9700

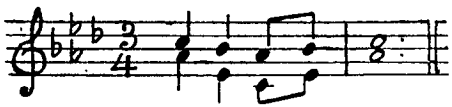
SO. AMERICAN SERVICE

Bulgarian	kc/s
23.00–23.30	7670, 9700
00.30–01.00	7670, 11850

[1]) also f. No. America. – [2]) Sun. only. – [3]) not Sun. – [4]) Tues., Thurs. & Sat. – [5]) Wed., Fri., Sun. – [6]) also for Europe.

ANN.: Home Sce.: "Govori Sofia". – **Foreign Sce.: E.:** "This is Sofia Bulgaria calling". – **F.:** "Ici Sofia, Radiodiffusion Bulgare". – **Tu.:** "Burasi Sofia radiosu". – **Gr.:** "Milai i Sofia". – **G.:** "Hier spricht Sofia Bulgarien". – **I.:** "Qui é Radio Sofia". – **Arabic:** "Huna Sofia".

INT.-SIG.: The beginning of a Bulgarian song, which begins with the words "Dear Homeland":



V. by QSL-card or letter. – **PUB.:** Prgr. sched. free on request.

★ CZECHOSLOVAKIA ★

L.T.: GMT+1 h. – **Pr.L.:** Czech, Slovak. – **Po.:** 13.500.000. – **Rcvrs.:** 3.094.192. – **E.C.:** 110/220/380 V., A.C., 50 c/s.

CESKOSLOVENSKY ROZHLAS (Go.)

ADDR.: Czechoslovak Radio, Praha 12, Stalinova 12. – **Cable:** Radiopraha. – **L.P.:** Dir. Gen.: K. Hoffmann. Dir. Foreign Service: B. Švec. Dir. Prgr.: Dr. J. Kolář. Dir. of Cz. Radio in Bratislava: J. Riečan. Dep. Dir. Gen.: K. Zavadil. Dir. Adm.: V. Ferst. Dir. Tec.: M. Junek. Head of For. Rel.: Karol Reif.

HOME SCE.: Medium Waves

Name	kc/s	m	kW	Name	kc/s	m	kW
Praha II	272	1102.9	200	Bratislava	1232	243.5	100
Praha I	638	470.2	120	Praha II	1286	233.3	100
Bratislava	701	427.2	100	Praha I	1484	202.2	3
Praha I	953	314.7	100	Praha II	1484	202.2	3
Praha I	953	314.7	30	Bratislava	1484	202.2	3
Bratislava	1097	273.5	150	Praha II	1520	197.3	30

FM: Praha 66.65 mc/s 1 kW.

PRAHA I: In Czech: 03.30(Sun. 05.00)–23.00(Sat. 01.00). – **N.:** 03.30, 04.00, 05.00, 06.00, 08.50, 11.00, 15.00, 18.00, 21.30, 22.50. – **Night concerts** (with multilingual ann.): Tues./Thurs./Sun. 21.55.

PRAHA II: In Czech/Slovak: 03.30(Sun. 05.00)–23.00(Sat. 01.00). – **N.:** 06.00, 10.00, 12.00, 16.00, 18.00, 21.00 – **Night concerts** (with multilingual ann.): Mo., Wed. 21.50. Fri., Sat. 21.55.

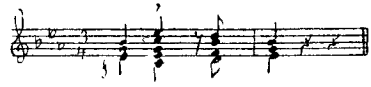
On 1484/1520 kc/s: Bulgarian: Sat. 16.30–17.00. **Polish:** W. 15.50–16.00. – **On 701/1232 kc/s: German:** W. 15.00–15.15. Sun. 07.30–08.30.

BRATISLAVA: In Slovak: 04.00(Sun. 05.00)–23.00. – **N.:** 04.00, 05.00, 06.00, 09.00, 11.30, 15.00, 18.00, 21.00, 22.50. **Hungarian:** W.: 05.15–05.30, 11.30–12.00, 16.30–17.00. Sun. 14.00–15.00. **Ukrainian:** W.: 06.15–06.25, 15.15–15.45. Sun. 15.00–15.30.

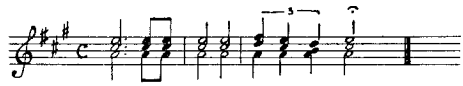
ANN.: Radio Praha I, Praha II, Bratislava: "Stanice Praha I, Praha II, Bratislava".

INT.-SIG.: HOME SCE.:

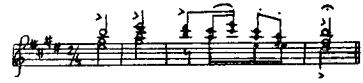
Praha I: The two opening bars of Smetana's symphonic Poem "Vyšehrad"



Praha II: Fanfares from a March by V. Dobiás



Bratislava: Fanfares from a March by B. Urbanec:



FOREIGN SERVICE:

100 kW exc. 1097 kc/s 150 kW. Valid from 15/10 59–15/4 60.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m.
1097	273.5	7235	41.47	9665	31.04	11795	25.43	15285	19.63
1286	233.3	7275	41.24	9670	31.02	11840	25.34	17815	19.84
5970	50.25	7340	40.87	11725	25.59	15125	19.83	17895	16.76
6055	49.55	9504	31.57	11730	25.58	15185	19.76	21450	13.99
7185	41.75	9550	31.41	11745	25.54				

Remark: Frequencies in brackets replace those quoted in first place as from 1/12 59 to 31/1 60.

EUROPEAN SERVICE:

Czech/Slovak	kc/s
15.30–15.55	6055, 7185, 7235,
15.00–15.55*	9670, 15125
* Sun.	
English	
12.15–12.45	9504, 11725, 15285
19.00–19.27	7185, 9550
20.00–20.30	7185, 9550
21.00–21.27	6055, 7185, 9550, 11795
22.00–22.30	1286
23.10–23.40	1097
French:	
11.15–11.45	9504, 11725, 15285
17.30–18.00*	15125, 17815, 21450
18.00–18.30	7185, 9550
20.30–21.00	1286
21.30–22.00	1286
* for Africa.	
German	
18.00–18.30	1286
19.00–19.30	1286
20.00–20.30	1286
23.00–23.15	1286
German for Austria	
10.30–11.00	7275, 9504, 11725
16.00–16.25	6055, 7185
17.15–18.00	1286
Greek	
17.30–17.57	7185, 9550
19.30–19.57	7185, 9550
Italian	
17.00–17.27	7185, 9550
18.30–19.00	1286
21.30–22.00	6055, 7185
Portuguese	
18.30–18.55	9670, 11730, 15125
23.45–00.15	1097, 1286
Serbo/Croat	
09.30–10.00*	7275, 9504, 11725
16.00–16.25	5970, 7235, 9670
19.00–19.30	5970, 6055, 7235
* Sun. only.	
Spanish	
13.00–13.30	11840, 15285, 17895, 21450
22.00–22.30	6055, 7185, 9550, 11795, 15285
23.15–23.45	1286
Swedish	
10.00–10.30	7275, 9504, 11725
16.30–17.00	7185, 9550
18.30–18.57	7185, 9550
19.30–19.55	5970, 6055, 7235

OVERSEAS SERVICE

TO NORTH AMERICA

English	kc/s
00.30–01.00	9550, 11725 (7340)
03.00–04.00	9550, 11725
05.00–05.30	(7340), 11745
Czech/Slovak	
23.30–24.00	9550, 11725 (7340)
01.00–02.00	9550, 11725 (7340)
02.30–03.00	9550, 11725
04.00–04.30	(7340), 11745
Spanish (also for Mexico)	
23.00–23.30	9550, 11725 (7340)
00.00–00.30	9550, 11725 (7340)
02.00–02.25	9550, 11725 (7340)
04.30–05.00	9550, 11725 (7340) 11745

TO SOUTH AMERICA

English	kc/s
00.30–01.00	11745, 11840, 15285 (9665)
03.00–04.00	9665, 11840
05.00–05.30	9665, 11840
Czech/Slovak	
23.30–24.00	11745, 11840,
01.00–02.00	15285 (9665)
02.30–03.00	9665, 11840
04.00–04.30	
Spanish	
23.00–23.30	11840, 15285 (9665)
00.00–00.30	11745, 11840,
02.00–02.25	15285 (9665)
04.30–05.00	9665, 11840
Portuguese (to Brazil)	
21.30–22.00	9550, 11795, 15285

TO PACIFIC

English	kc/s
08.30–09.30	11840, 15185, 21450

TO M. EAST

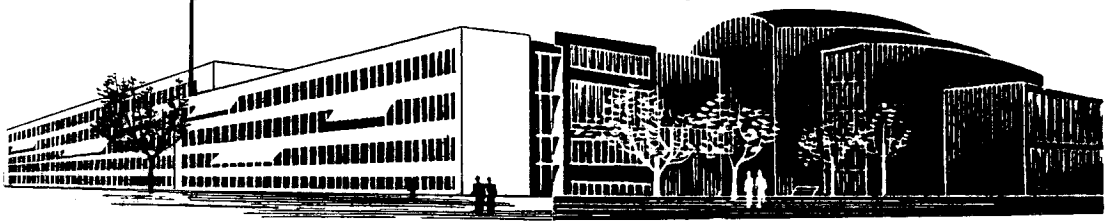
Arabic	kc/s
16.30–17.25	11730, 15125, 17815
20.00–20.55	7235, 9670, 11795

Freq. are subject to minor changes with seasonal variations or to avoid interference.

Listen to

THE VOICE OF DENMARK

The Danish short wave transmissions are beamed to North America, South America, Africa, India and the Far East



To North America on 31.51 m—9.520 kc/s.
Daily 1.30—2.30 and 3.00—4.00 GMT. E.S.T.: 8.30—9.30 and 10.00—11.00 p. m.
DX-bulletin: Wednesdays 2.00—2.10 a. m. and 3.30—3.40 a. m. GMT.

To South America on 31.51 m—9.520 kc/s.
Mondays, Wednesdays and Fridays 23.00—24.00 GMT.

To Far East, Australia and New Zealand on 19.78 m—15.165 kc/s.
Tuesdays, Thursdays and Saturdays 9.00—10.00 a. m. GMT.
DX-bulletin: Thursdays 9.50—10.00 a. m. GMT.

To South Asia on 19.78 m—15.165 kc/s.
Tuesdays, Thursdays and Saturdays 14.00—15.00 GMT.
DX-bulletin: Thursdays 14.50—15.00 GMT.

To Africa and the Near East on 19.78 m—15.165 kc/s.
Tuesdays and Fridays 16.40—17.40 GMT.

For Listeners in Africa and the Near East 19.78 m—15.165 kc/s
Daily 17.40—21.15 GMT. rebroadcast of Danish home service.

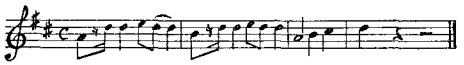
Special broadcasts to Danish ships daily 10.00–10.30 GMT. Far East 19.78 m–15.165 kc/s, 15.00–15.30 GMT. South Asia 19.78 m—15.165 kc/s, 16.00–16.30 GMT. Mediterranean and Middle East 19.78 m—15.165 kc/s, 00.00–00.30 GMT. South America 31.51 m—9.520 kc/s, and 01.00–01.30 GMT. North America 31.51 m—9.520 kc/s.

Listeners all over the world are invited to send reception reports together with their criticisms and programme suggestions to

the SHORTWAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK

Answer by letter or QSL-card

PRGRS. FOR RADIOAMATEURS:
European Service: English: First Mo. of every month at 19.00.
German: First and third Tues. at 18.00 and for Austria at 16.00.
Overseas Service: English: First and third Thurs./Fri. night at 00.30 and 05.00 for No. and So. Am. repeated the following day at 03.00 for No. and So. Am. and at 08.30 for New Zealand, Australia, Japan. In the first prgr. of every month sunspot predictions as supplied by the Ondrejov Observatory are given.-
ANN.: English: "This is Prague". – **Arabic:** "Huna Pragh". – **French:** "Ici Prague, Tchécoslovaquie". – **Italian:** "Qui Praga, Cecoslovacchia". – **German:** "Hier spricht Prag". – **Greek:** "Edo Praga". – **Yugoslavian:** "Govori Prag". – **Spanish:** "Aqui Radio Praga, Checoslovaquia". – **Swedish:** "Här är Prag". – **Czech/Slovak:** "Posloucháte Prahu, vysílání. Csrozhlasu pro krajany". – **INT.-SIG.:** The opening bars of the song "Forward Left" by J. Seidl.



V. by QSL-card or letter. – **PUB.:** Weekly: "Ceskoslovensky rozhlas a televise". *Monthly:* "Rozhlasova a televisni práce". *Weekly: Prgr.*-sched. in English and Russian. Foreign Sce. sched. free on request.

Adv.:
Message to Listeners: Listeners are asked to send us their comments and programme suggestions and reports on reception conditions. Radio Prague is carrying out a continuous reception survey, and welcomes the cooperation of listeners throughout the world.

★ DENMARK ★

L.T.: GMT + 1 h. – **Pr.L.:** Danish. – **Po.:** 4.499.504. – **Rcvrs.:** 1.391.064. – **E.C.:** 220 V., A.C., 50 c/s., D.C.
RADIO DENMARK (Go.)
ADDR.: Radio Denmark, Radiohuset, Rosenørnsallé 22, Copenhagen. – **Cable:** "Danradio".
L.P.: Dir. Gen.: F. E. Jensen. Prgr. Dir/Sound: Aksel Dahlerup. Prgr. Dir./TV: Jens Fr. Lawaetz. Dir. Adm.: J. Jannik. Dir. Secretariate: Ejnar Jensen. Dir. Music: Vagn Kappel. Dir. Spoken Word: Hans Sølvhøj. Dir. Drama: Felix Nørgaard. Dir. Entertainment: Svend Pedersen. Dir. Inf. and Shortwave: P. Berg. Dir. Tec.: Fr. Heegaard. Dir. N.: N. Grunnet.
HOME SERVICE:
1st PRGR.: W.: 05.00–09.40, 10.50–22.00. Sun.: 07.00–14.00, 14.25–22.00.

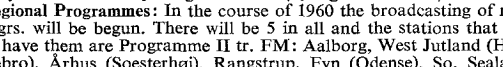
	kc/s	m	kW		kc/s	m	kW
Kalundborg I	245	1224	150	København I	1484	202	2[1]
København II	1430	210	10	Herstedvester	15165	19.78	50[2]

[1]) 17.00–22.00 only. [2]) 17.40–21.15 only.
N.: 05.00(W), 06.00(W), 07.00, 11.30, 17.45, 21.00. – **Wrp.:** 07.45, 10.55, 16.40. – **L.L.: French:** Sun. 07.20–07.40. **English:** Mo., Thurs. 17.20–17.40, Tues. 17.00–17.20. **German:** Tues. 21.35–22.00, Thurs. 21.15–21.35. **Spanish:** Mo., Thurs. 17.00–17.20. **Swedish:** Every second Sun. 07.40–08.00. – **Request Prgr.:** Sun. 11.00–13.00. Tues. 18.15–19.15.
2nd PRGR.: W. 17.00–22.00. Sun. 07.00–11.00, 17.00–22.00.

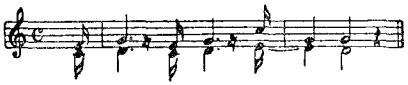
	kc/s	m	kW		kc/s	m	kW
Kalundborg II	1061	283	60	Aalborg	1484	202	0.25
København II	1430	210	10	Tønder	1484	202	0.25
Skive	1430	210	70	Esbjerg	1594	188	2

FM:	Prgr.1 mc/s	Prgr.2 mc/s	kW		Prgr.1 mc/s	Prgr.2 mc/s	kW
København	90.8	96.5	26	Vestjylland	90.2	99.2	60
Aarhus	91.7	95.9	30	Bornholm	94.5	99.3	30
Aalborg	93.3	88.1	30	Sønderjylland	95.1	99.9	60
Næstved	94.8	99.6	60				

Projected St.: FM Fyn Prgr. I 89.0 mc/s, Prgr. II 96.8 mc/s.
Regional Programmes: In the course of 1960 the broadcasting of reg. prgrs. will be begun. There will be 5 in all and the stations that are to have them are Programme II tr. FM: Aalborg, West Jutland (Holstebro), Århus (Soesterhøj), Rangstrup, Fyn (Odense), So. Sealand (Næstved), Bornholm (Årsballe). The h. of tr. will be 18.15–18.45. In addition it is the intention to transmit these prgr.'s from some local AM tr's. (for example Esbjerg, Tønder, Ålborg).
ANN.: "Danmarks Radio Program I (Program II)". – **INT.-SIG.:** Prgr. I: From an old Danish folksong: D. at 11.00 and 19.00: The chimes of the Town Hall in Copenhagen.



Prgr. II:

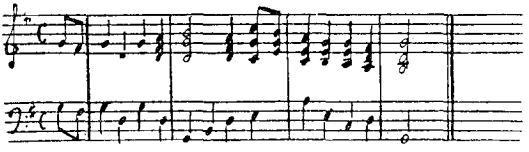


FOREIGN SERVICE: (DS = Danish Ships).

	kc/s	m	kW		kc/s	m	kW		kc/s	m	kW
OZF3	6060	49.50	50	OZF5	9520	31.51	50	OZF8	15180	19.76	50
OZF4	7260	41.32	50	OZF7	15165	19.78	50	OZF9	15320	19.58	50

00.00–00.30	D.	on	9520	kc/s	DS (S.Am.)
01.00–01.30	D.	on	9520	–	DS (N.Am.)
01.30–02.30	D.	on	9520	–	N.Am.
03.00–04.00	D.	on	9520	–	N.Am.
09.00–10.00	Tues., Thurs., Sat.	on	15165	–	FE, Au, NZ[1])
10.00–10.30	D.	on	15165	–	DS (FE)
14.00–15.00	Tues., Thurs., Sat.	on	15165	–	S.As.
15.00–15.30	D.	on	15165	–	DS (S.As.)
16.00–16.30	D.	on	15165	–	DS (ME)
16.40–17.40	Tues., Fri.	on	15165	–	Af., ME
17.40–21.15	D. (Home Sce.)	on	15165	–	NE
23.00–24.00	Mo., Wed., Fri.	on	9520	–	S.Am.

[1]) Last 30 minutes in **English.**
Prgrs. in **Danish** consist of **N., Music, Songs, Talks and Features** about life in Denmark and **Reportages.** – On all weekdays the broadcast to U.S. and Canada consists of a 30 minute prgr. in **Danish** and 30 minute prgr. in **English.**
A sketch of a weeks prgr. in **Danish** and in **English: Mo.: N.,** Literary, Music, D. Views on the N., Classical Da. Music. – **Tues.: N.,** Reportage, Entertainment. – **Wed.: N.,** Entertainment, Actualities, Da. Folk Music. **DX-Bulletin:** 02.00, 03.30. – **Thurs.: N.,** Feature, Quiz, Concert. **DX-Bulletin** 09.50, 14.50. – **Fri.: N.,** Talk, Light Music, Anything-anybody. – **Sat.: N.,** Light Prgr., Saturday Night Club. – **Sun.:** Church Service, Da. Music, Reportage. – The Saturday Night Club will also contain letters from listeners and musical requests. – On Wed. 23.00–23.30 (N. and Music) and on Fri. 23.15–23.30 a special prgr. (Feature and Music) in **Spanish** (To South America).
A special DX-Bulletin: Tues. at the end of the two No.Am. prgr.
ANN.: "Danmarks Kortbølgesender". – "You are tuned to the Voice of Denmark". – Every transm. begins with the chimes of the Town Hall, followed by the National Anthem. – **INT.-SIG.:** The first movement of "Som en rejselysten Flaade" composed by Carl Nielsen:



Message to Listeners: The Danish State Radio is anxious to receive reports on prgr. and on reception conditions from all parts of the world. It makes every endeavour to get into touch with countrymen and listeners in countries abroad with a view to provide the best possible short wave service. – **V.** by letter or QSL-card.
R. MERCUR (Comm.). Addr.: Adolphsvej 61, Gentofte.
Station: 88.0 mc/s 3 kW: W. 05.00–08.30, 15.00–23.00 (Sat. 24.00). Sun. 09.00–11.00, 15.00–23.00.

★ FAEROE ISLANDS (Danish Territory) ★

L.T.: GMT. – **Pr. L.:** Faroese. – **Po.:** 32.500. – **Rcvrs.:** 3000.
ADDR.: Utvarp Föroya, Tórshavn. – **L.P.:** Mgr.: A. Tórgard.
HOME SCE.: 1367 kc/s 219 m 5 kW: 12.20–12.45, 18.30–19.45. Prgr. consists of Wrp., N. from the Faroes, foreign N., music. In the evening prgr. also lectures.
ANN.: "Faroe Radio – Utvarp Föroya". – **INT.-SIG.:**

★ FINLAND ★

L.T.: GMT + 2 h. – **Pr. L.:** Finnish, Swedish. – **Po.:** 4.291.000. – **Rcvrs.:** 1.168.684. – **E.C.:** 110/127, 220/230. A.C., 50 c/s.
OY YLEISRADIO AB (Go.)
ADDR.: Unionkatu 16, Helsinki. – **Cable:** "Yleisradio". – **L.P.:** Dir. Gen.: E. Sundström. Dir. Adm. and Dept. Dir. Gen.: O. Toivonen. Dir. Finnish Prgr.: J. Koskiluoma. Dir. Swedish Prgr.: C. Schildt. Dir. Tec.: J. Rissanen. TV-Prgr.: V. Zilliacus. Head For. Rel.: E. Valilla.

RADIODIFFUSION OUTRE-MER

RÉSEAU OUTRE-MER

RADIODIFFUSION DE L'ÉTAT DU CAMEROUN - YAOUNDE, DOUALA, GAROUA.
RADIODIFFUSION DE LA RÉPUBLIQUE CENTRAFRICAINE - BANGUI.
RADIODIFFUSION DE LA RÉPUBLIQUE DU CONGO - BRAZZAVILLE.
RADIODIFFUSION DE LA RÉPUBLIQUE DE LA COTE D'IVOIRE - ABIDJAN.
RADIODIFFUSION DE LA RÉPUBLIQUE DU DAHOMEY - COTONOU.
RADIODIFFUSION DE LA RÉPUBLIQUE GABONNAISE - LIBREVILLE.
RADIODIFFUSION DE LA FÉDÉRATION DU MALI - DAKAR.
RADIODIFFUSION DE LA RÉPUBLIQUE MALGACHE - TANANARIVE.
RADIODIFFUSION DE LA RÉPUBLIQUE ISLAMIQUE DE MAURITANIE - ST-LOUIS, NOUAKCHOTT.
RADIODIFFUSION DE LA RÉPUBLIQUE DU NIGER - NIAMEY.
RADIODIFFUSION DE LA RÉPUBLIQUE DU SÉNÉGAL - DAKAR.
RADIODIFFUSION DE LA RÉPUBLIQUE SOUDANAISE - BAMAKO.
RADIODIFFUSION DE LA RÉPUBLIQUE DU TCHAD - FORT-LAMY.
RADIODIFFUSION DE LA RÉPUBLIQUE DU TOGO - LOME.
RADIODIFFUSION DE LA RÉPUBLIQUE VOLTAIQUE - OUAGADOUGOU.
RADIODIFFUSION INTER-ÉTATS RADIO INTER-ÉQUATORIALE A BRAZZAVILLE.

46, RUE D'AMSTERDAM PARIS 9e

HOME SERVICE

FINNISH NETWORK: W.: 04.30–06.10, 08.50–12.10, 15.00–21.00. Sun. 05.45–21.00.

L-M Waves:	kc/s	m	kW		kc/s	m	kW
Helsinki II	1484	202	2	Oulu	433	693	10
Helsinki III	845	355	0.2	Pori	1484	202	1
Joensuu	520	577	1	Tampere	1421	211	1
Kuopio	755	397	20	Turku II	1484	202	0.2
Lahti	254	1181	200	Ylivieska	836	359	10
Short Waves:							
Pori OIX7	6120	49.02	15	Pori OIX4	15190	19.75	100
Pori OIX2	9555	31.40	10	Pori OIX5	17800	16.85	15

FM:	mc/s	kW		mc/s	kW
Forssa	89.2	0.1	Oulu	90.4	25
Helsinki I	91.9	40	Pello	99.1	15
Iisalmi	94.9	0.7	Pori I	97.3	15
Imatra	91.0	15	Pyhätunturi	97.9	15
Jyväskylä	92.2	10	Rauma	96.4	0,1
Kajaani	99.4	40	Rovaniemi	96.7	10
Kaunispää	96.4	15	Sammaltunturi	95.2	15
Kemi	92.8	10	Savonlinna	95.8	10
Kokkola	99.7	10	Taivalkoski	88.3	30
Koli	90.1	15	Tammisaari I	93.1	3
Kotka	96.1	0.3	Tampere I	93.7	10
Kristiina I	94.6	10	Tampere II	90.7	0,7
Kuopio	91.6	25	Turku I	94.3	25
Lahti	95.5	15	Vaasa I	95.2	25
Loviisa	89.2	0.05	Ylivieska	94.0	10
Mikkeli	88.9	10	Ähtäri	98.5	40
Mänttä	89.8	0.1			

The FM-stations broadcast the Finnish main prgr. and in addition music prgr. on weekdays at 14.00–15.00.

N., Wrp.: 04.30, 06.00, 10.30, 16.55, 17.00, 20.00. – **L.L.: French:** Tues 15.40–16.00. – **Mbg.:** Mo. 15.40.

BILINGUAL NETWORK: (Finnish & Swedish):
W.: 04.30–06.10, 08.50–12.10, 15.00–21.00. Sun. 05.45–21.00.

M.W.:	kc/s	m	kW		kc/s	m	kW
Helsinki I	557	539	100	Turku I	962	312	100
Pietarsaari	1484	202	1	Vaasa	1241	242	25
Tammisaari	1484	202	0.2				

FM:	mc/s	kW		mc/s	kW
Helsinki II	94.0	40	Tammisaari II	89.5	3
Kristiina II	90.1	10	Turku II	98.2	25
Pietarsaari	97.6	10	Vaasa II	93.1	25
Pori II	99.4	3			

Swedish Prgr.: W.: 04.40–04.50, 05.30–05.45, 06.10–06.20, 10.40–10.50, 17.15–17.30, 20.10–20.20. Sun.: 06.40–07.05, 10.40–10.50, 11.00–12.45, 17.15–17.30, 20.10–20.20. – Additional Swedish Prgr.: 11.10–12.10 (Tues., Thurs.), 14.45–15.00 (Mo., Fri.), 16.00–17.00 (Mo., Wed., Fri.), 17.30–18.30 (Tues., Sat.), 20.20–21.00 (Mo., Fri.), 20.30–20.40. – **N., Wrp.:** 04.40, 06.10, 10.40, 17.15, 20.10. – **L.L.: Finnish:** Sun. 12.20. – **Mbg.:** Mo. 16.45.

FOREIGN SERVICE

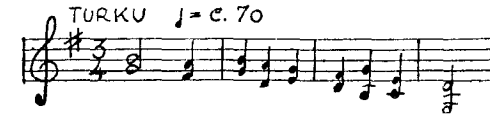
TO EUROPE:
D. 09.00–11.00 on 6120 kc/s: General Home Sce. prgr.
D. 16.00–18.30 on 6120, 15190, 17800 kc in **Finnish & Swedish.**
Finnish: Sun. 16.00–17.10, Mo. & Thurs. 16.00–18.30, Tues., Fri. & Sat. 16.00–17.30, Wed. 16.00–17.40.
Swedish: Sun. 17.10–17.30, Tues. & Sat. 17.30–18.20, Wed. 17.40–18.30, Fri. 17.30–18.30. – **Prgr. for seamen in Finnish & Swedish:** Sun. 17.30–18.30.

TO NO. AMERICA on 15190, 17800 kc/s:
[1]) 23/9–20/3: D. 11.30–14.00; [2]) 21/3–22/9: D. 20.30–23.00.
Finnish: [1]) Sun. 11.30–12.40 ([3]) 20.30–21.40). Mo., Thurs. [1]) 11.30–14.00 ([3]) 20.30–23.00). Tues., Fri. & Sat. [1]) 11.30–13.00 ([2]) 20.30–22.00). Wed. [1]) 11.30–13.10 ([2]) 20.30–22.10).
Swedish: Sun. [1]) 12.40–13.00 ([3]) 21.40–22.00). Tues. [1]) 13.00–13.50 ([3]) 22.00–22.50). Wed. [1]) 13.10–14.00 ([3]) 22.10–23.00). Fri. & Sat. [1]) 13.00–14.00 ([3]) 22.00–23.00). **Prgr. for seamen in Finnish & Swedish:** Sun. [1]) 13.00–14.00 ([3]) 22.00–23.00).

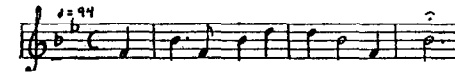
DX-PRGR.:
To Europe: First Fri. of the month 16.00–16.30 on 6120/15190/17800 kc. – **To No. America:** First Sat. of the month [1]) 11.30–12.00 ([2]) First Fri. of the month 20.30–21.00 on 15190/17800 kc.

ANN.: Fi.: "Suomen Yleisradio" followed by prgr. announcement (all stations). ***Fi.* and Sw.:** "Suomen *Yleisradio, Finlands Rundradio*" (Helsinki, Turku, Vaasa, and Pietarsaari).
INT.-SIG.: Every weekday at 08.45: Normal-a.
Lahti and Helsinki: The int.-sig. is based on an old Finnish melody. the "Kantele melody".

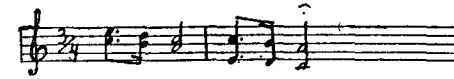
Turku: A fragment of "Ergo plebs finnonica", the hymn of St. Henrik



Vaasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of the lake Kallavesi.:



V. by QSL-card.

★ FRANCE ★

L.T.: GMT + 1 h. **Pr. L.:** French. – **Po.:** 43.648.000. – **Rcvrs.:** 10.834.444 – **E.C.:** 110 V., A.C., 50 c/s.

RADIODIFFUSION-TELEVISION FRANÇAISE (Go.)
ADDR.: 107, rue de Grenelle, Paris 7ème. – **Cable.:** Radiodif, Paris.
The Regional Services: 32–34, rue Ulysse Gayon, Bordeaux – 36 Bd, de la Liberté, Lille – 6 Bd Victor Hugo, Limoges – 20 quai Gailleton, Lyon – 2, allée Ray Grassi (Parc Chanot), Marseille – 6, avenue Hippolyte Maringer, Nancy – 9, avenue Janvier, Rennes – 2, avenue de la Marseillaise, Strasbourg – 78, allées Jean Jaurès, Toulouse.
L.P.: Dir. Gen.: M. Christian Chavanon. Deputy Dir. Gen.: M. *Raoul Ergmann. Deputy Dir. Gen., Dir. Tec.: M. Marien Leschi.* Chef du Service de l'Inspection Générale: M. Maurice Lenoble. Che des Services de la Direction Générale: M. Charles Bonami. Directeur des Services Artistiques: M. Paul Gilson. Directeur des Programmes de Télévision: M. Albert Ollivier. Directeur des Informations, de l'Actualité Télévisée et des Emissions Extérieures: M. René Thibault. Directeur des Relations Internationales: M. Jean D'Arcy. Adjoint: M. Michel Robida. Chef du Service de l'Exploitation: M. Claude Mercier. Directeur du Programme Paris-Inter – France I: Mme Agathe Mella. Directeur du Programme Régional – France II: M. Jean-Vincent Brechignac. Directeur du Programme National – France III: M. Henry Barraud. Directeur du Club d'Essai et du Centre d'Etudes Radio-Télévision: M. Jean Tardieu.
***The Regional Services (Regional Directors):* Bordeaux:** *vacant.* **Lille:** M. Lafond. **Limoges:** M. Zamponi. **Lyon:** M. Wadin. **Marseille:** M. Besse. **Nancy:** M. Villatte. **Rennes:** M. Favennec. **Strasbourg:** M. Caze. **Toulouse:** M. Faget.

HOME SERVICE

NETWORK A (France I):
Long & Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Allouis	164	1829	250/500*	Nantes II	1493	201	0.05
Paris III	584	514	1	Strasbourg III	1493	201	0.05
Grenoble II	1484	202	0.05	Toulouse III	1493	201	1
Montpellier II	1484	202	0.2	Nice I	1554	193	60
Perpignan	1484	202	1	Nimes I	1594	188	1
Brest III	1493	201	1	*Toulon*	1594	188	0.05
Marseille III	1493	201	1	* at 18.15–23.00	500 kW		

FM: Lille II 88.7 mc/s 2 kW – Paris (Grenelle) 96.1 mc/s 5 kW Metz II 93.3 mc/s 12 kW – Mulhouse II 96.3 mc/s 12 kW

D. PRGR.: On 164 kc/s: 24 h. exc. Fri. 03.18–05.14. Other tr. D. 05.14–23.00. On 6200 kc/s at 05.15–23.00.

N.: W.: 05.15, 06.15, 07.15, 08.15, 09.15, 10.15, 11.15, 12.00, 13.15, 14.15, 15.15, 16.15, 17.15, 18.15, 22.15. Sun.: 05.15, 06.15, 07.15, 08.15, 12.00, 13.15, 14.15, 15.15, 16.15, 18.15, 22.15. D.: 00.15, 01.15, 02.15, 03.15, 04.15. – **"Paris Vous Parle":** D. 18.15 (relayed on 21580 kc/s). – **"Bonsoir l'Europe... Ici Paris":** Mo.: 20.50–21.30, 22.20–23.00. – **"Sports et Musique":** Sun. 13.50–17.00 (relayed on 21580 kc/s).

NETWORK B (France II):
Medium Waves:

	kc/s	m	kW		kc/s	m	kW
Lyon I	602	498	100	Strasbourg I	1160	259	150
Rennes I	674	445	150	Bordeaux I	1205	249	100
Marseille I	710	422	150	Lille I	1376	218	150
Limoges I	791	379	100	Brest II	1403	214	20
Nancy I	836	359	150	Montpell. I	1403	214	10
Paris I				Nice II	1403	214	20
(Villebon)	863	348	150	Rouen	1403	214	20
Toulouse I	944	318	100	Bayonne	1493	201	1
FM: Caen II	91.5 mc/s		12 kW				

CENTRES ÉMETTEURS CFTH RADIODIFFUSION ET TÉLÉVISION

FRENCH NETWORK OF CFTH BROADCAST TRANSMITTERS

ÉMETTEURS A ONDES MOYENNES

Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)	Noms des Stations Names of stations	Puissance installée (kW) Power installed by CFTH	Type (V: install. Vapodyne)
Bordeaux-Néac II.....	20	1392	Marseille-Réaltort II ..	20	1392
Brest-Quimerc'h I.....	25/30	1392 (V)	Montpellier-La Blanq. I	10	1308
Brest-Quimerc'h II....	25/30	1392 (V)	Nancy-Nomény I.....	100×2	755 (V)
Clermont-Ennezat.....	20×2	1392	Nancy-Nomény II....	20	1392
Grenoble-Ville I.....	20	1930 (V)	Nantes-Montbert I....	10	1308
Lille-Camphin II.....	20	1392	Nice-La Brague II....	25/30	1392 (V)
Limoges-Nieul I.....	120	1395	Nice-La Brague III....	20	1392
Limoges-Nieul II.....	20	1392	Paris-Villebon II.....	100	755 (V)
Louvetot.....	20	1392	Paris-Romainville		
Lyon-Tramoyes I.....	120	1395	+ Club d'essais	10	1308
Lyon-Tramoyes II....	20	1390 (V)	Strasbourg-Sélestat I ..	100×2	755 (V)
Marseille-Réaltort I...	135	721 (V)	Strasbourg-Sélestat II..	100	755 (V)

N.B. – Seuls ont été meniionnés les émetteurs dont la puissance est supérieure à 5 kW. Il convient en effet de considérer que les postes secondaires ou régionaux à puissance réduite sont fréquemment déplacés par l'Administration de la RTF et que leur emplacement ne peut être utilement localisé. Rentrent dans cette catégorie les principaux centres CFTH suivants:

— Brest Quimerc'h — Grenoble-Ville I Nantes-Montbert I — Poitiers — Strasbourg-Sélestat III
— Caen — Lille-Camphin I — Perpignan — Saint-Brieuc — Toulon etc.

ÉMETTEUR A ONDES LONGUES ★ ÉMETTEURS A ONDES COURTES

Centre d'Allouis.....	20 kW	TH R 1392	Centres d'Allouis et d'Issoudun.....	600 kW	6 chaînes HF 4 chaînes BF

ÉMETTEURS A MODULATION DE FRÉQUENCE ET ANTENNES F. M.

Noms des Stations Names of stations	Emetteurs Transmitters	Antennes Aerials	Noms des Stations Names of stations	Emetteurs Transmitters	Antennes Aerials
Amiens (Bouvigny).....	2	1	Marseille (Grande Étoile).....	1	1
Bourges (Neuvy-les-2-Clochers)...	–	1	Mulhouse.....	–	1
Caen (Mont-Piçon).....	3	1	Nancy (Vandœuvre).....	–	1
Côte d'Azur (Pic de l'Ours).....	–	1	Paris (Tour Eiffel).....	4	1
Dijon (Nuits-Saint-Georges).....	–	1	Pic du Midi (2.870 m).....	–	1
Lorraine (Luttange).....	2	1	Reims (Hautvillers).....	–	1
Lyon (Mont-Pilat).....	1	1			

THOMSON CFTH HOUSTON

COMPAGNIE FRANÇAISE THOMSON-HOUSTON - GROUPE ÉLECTRONIQUE - 173, BD. HAUSSMANN, PARIS-8e

STATIONS DE TÉLÉVISION EN FRANCE ET A L'ÉTRANGER

Noms des Stations Names of stations	Emetteur: 1 (Transmitter) Antenne: 2 (Aerial) Studio: 3	Noms des Stations Names of stations	Emetteur: 1 (Transmitter) Antenne: 2 (Aerial) Studio: 3
Amiens (Bouvigny)	1 2	Marseille (Grande Étoile)	3
Angers	1 2	Moscou (Russie)	3
Alger (Bd Brû)	3	Nice (Mont-Alban)	1 3
Besançon (Fort de Bréville)	1	Oran (Algérie)	3
Beyrouth (Liban)	3	Pic du Midi (2.870 m)	1 2
Brest (Quimerc'h)	1 2	Paris (Buttes Chaumont - Cognacq-Jay)	3 3
Épinal	1 2	Puy-de-Dome (Sommet du)	1 2
Gex	1	Rennes (Saint-Pern)	1 2
Grenoble (Croix de Chamrousse)	1 2	Reims (Hautvillers)	1 2
Le Havre (près Honfleur)	2	Rouen (Grand Couronne)	1 2
Le Mans (Mayet)	1 2	Saint-Étienne (Croix de Cuizay)	1 2
Lille	3	Strasbourg (Place de Bordeaux)	3
Longwy	1 2	Toulon (Cap Sicié)	1
		Turin (Italie)	3

ÉMETTEURS DE RADIODIFFUSION "COMMUNAUTÉ" ET "ÉTRANGER"

Noms des Stations Names of stations	Ondes Waves	Puissance installée par CFTH (kW) Power installed by CFTH (kW)	Type CFTH (V: Installation Vapodyne)
Abidjan (Rep. de la Côte d'Ivoire)	courtes (sw)	25/30	TH. R. 835 (V)
A.C.F.L. - New York (USA)	courtes (sw)	50 × 4	TH. R. 775 (V)
Alger III (Algérie)	courtes (sw)	10 × 2	TH. R. 1308
Alger IV (Algerie)	courtes (sw)	50 × 4	TH. R. 775 (V)
Andorradio (Andorra)	moyennes (mw)	**100**	TH. R. 755 (V)
Barcelone (Espagne)	moyennes (mw)	25 × 2	TH. R. 1392
Brazzaville (Rép. du Congo)	courtes (sw)	50 × 2	TH. R. 775 (V)
Constantine I (Algérie)	moyennes (mw)	25/30	TH. R. 1392 (V)
Constantine II (Algérie)	moyennes (mw)	25/30	TH. R. 1392 (V)
Casablanca (Maroc)	M. F. (Fm)	250 W	TH. R. 914
Dakar-Rufisque (AOF)	courtes (sw)	25/30	TH. R. 835 (V)
Dakar-Rufisque (AOF)	courtes (sw)	25/30	TH. R. 1308
Felsberg "Europe No. 1" (Allemagne)	longues (Lw)	**400**	TH. R. 855 (V)
Heusweiller (Allemagne)	moyennes (mw)	**100**	TH. R. 755 (V)
Koper (Yougoslavie)	moyennes (mw)	6	TH. R. 817
Léopoldville (Congo Belge)	courtes (sw)	50	TH. R. 775 (V)
Ljubljana (Yougoslavie)	moyennes (mw)	**135**	TH. R. 721 (V)
Ljubljana (Yougoslavie)	moyennes (mw)	10	TH. R. 1308
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	**140 × 2**	TH. R. 721 (V)
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	25/30 × 3	TH. R. 1392
Meknès-Sebaa-Aïoun (Maroc)	moyennes (mw)	10	TH. R. 1308
Meknés-Sebaa-Aïoun (Maroc)	courtes (sw)	50	TH. R. 775 (V)
Monte-Carlo (Monaco)	moyennes (mw)	**200**	TH. R. 856 (V)
Monte-Carlo (Monaco)	moyennes (mw)	**200**	TH. R. 1395 (V)
Monte-Carlo (Monaco)	courtes (sw)	30 × 2	TH. R. 1038
Motala (Suède)	longues (Lw)	**600**	TH. R. 955 (V)
Oran I et II (Algérie)	moyennes (mw)	20 × 2	TH. R. 1392
Oran III et IV (Algérie)	moyennes (mw)	20 × 2	TH. R. 1392
Pristina (Yougoslavie)	moyennes (mw)	25	TH. R. 1392
Saigon I (Indochine)	courtes (sw)	25 × 2	TH. R. 1308
Saigon II (Indochine)	courtes (sw)	5	TH. R. 818
Saigon III (Indochine)	courtes (sw)	50	TH. R. 775 (V)
Sarajevo (Yougoslavie)	moyennes (mw)	25	TH. R. 1392
Sarajevo (Yougoslavie)	moyennes (mw)	**100**	TH. R. 755 (V)
Skoplje (Yougoslavie)	moyennes (mw)	25	TH. R. 1392
Tananarive (Madagascar)	courtes (sw)	5	TH. R. 818
Tel-Aviv (Israël)	moyennes (mw)	**100 × 4**	TH. R. 755 (V)
Tel-Aviv (Israël)	courtes (sw)	**100**	TH. R. 875 (V)
Titograd (Yougoslavie)	moyennes (mw)	25	TH. R. 1392
Tunis (Tunisie)	moyennes (mw)	25	TH. R. 1392
Zagreb (Yougoslavie)	moyennes (mw)	**135**	TH. R. 721 (V)

D. PRGR.: Tues., Wed., Fri.: 05.43–08.01, 08.01–10.29 (836/863 kc/s only), 10.29–13.32, 15.52–21.45. Mo., Thurs., Sat.: 05.43–08.01, 08.01–10.29 (836/863 kc/s only), 10.29–21.45(Sat. 22.00). Sun. 05.58–22.00. **N.:** 07.00, 19.00, 21.00(W), 21.43(W), 21.58(Sun.). – "**Disque des Auditeurs**": Sun. 06.20. – The news at 07.00 is relayed on 11845/15295 kc/s, and the news at 19.00 on 11900/15400 kc/s. W. 10.30–11.00 **Arabic** (relayed on 9755 kc/s.).

NETWORK C (France III)

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Bayonne II	539	557	0.05				
Bordeaux II	1070	280	20	Clerm.-Ferr.	1349	222	20
Marseille II	1070	280	20	Grenoble I	1349	222	20
Paris II	1070	280	100	Limoges II	1349	222	20
Brest I	1241	242	20	Nantes I	1349	222	10
Lille II	1241	242	20	Toulouse II	1349	222	20
Lyon II	1241	242	20	Annemasse	1484	202	1
Nancy II	1241	242	20	Caen	1484	202	0.05
Nice III	1241	242	20	Dijon	1484	202	1
Pau	1241	242	20	Poitiers	1484	202	1
Rennes II	1241	242	20	Saint-Brieuc	1484	202	0.05
Strasbourg II	1277	235	100	Besancon	1493	201	0.18

FM: Caen III 87.8 mc/s 12 kW – Bourges II 89.4 mc/s 12 kW
Dijon II 88.0 mc/s 2 kW – Paris II (Tour Eiffel) 97.6 mc/s 12 kW
D. PRGR.: 05.00–23.00.
N.: 08.00, 11.00, 22.53. – "**Ici New York**": Mo.–Fri. 18.01. – The High Mass Sun. 09.00–10.00 is relayed on 7160 kc/s.
D. 05.00–05.30 **Kabyle**; D. 05.30–06.00 **Arabic.**

NETWORK D (FM - France IV)

	mc/s	kW		mc/s	kW
*Metz I	89.7	12	*Strasbourg	95.0	2
Paris I (Tour			*Marseille	95.4	12
Eiffel)	90.35	12	Caen I	95.6	12
Toulouse I	91.5	2	Dijon I	95.8	2
*Mulhouse I	92.1	12	*Nancy	96.9	0.25
*Lille I	92.2	2	*Toulouse	97.5	0.25
*Lyon	92.7	12	*Bordeaux	98.1	2
Bourges I	93.0	12			

* relaying France III, when not radiating the prgr. of France IV.
D. PRGR.: Mo.–Fri. 16.00–23.00. Sat. 12.05–23.00. Sun. 08.30–23.00.
F.PL.: FM st's in Reims, Lille-Bouvigny May 1960.

SPECIAL BROADCASTS:
Paris IV (Romainville) 962 kc/s 312.0 m 5 kW
D. PRGR.: "**Culture Francaise**": Sun. 08.00–13.00. Sat. 12.30–16.00. Sun. 06.45–08.00 **Arabic** and **Kabyl.** W. 10.30–11.00 **Arabic.**

ANNOUNCEMENTS:
France I, France II, France III: At opening and close down: "La Marseillaise". – **General announcements:** "Ici Paris, Radiodiffusion-Télévision Française – (Prgr. France I, France II or France III)". – **Bordeaux:** "Ici Bordeaux, Radiodiffusion-Télévision Française". – **Lille:** The first movement of the melody "Petit Quinquin" followed by "Ici Radio Lille, Radiodiffusion-Télévision Française". – **Limoges:** Some movements of a folklore dance followed by: "Ici Limoges, Radiodiffusion-Télévision Française". – **Lyon:** Harmonizing by R. Corniot of the melody "Les Boeufs" by F. Dupont followed by "Ici Lyon, Radiodiffusion-Télévision Française". – **Marseille:** The first movements of the Provencal Suite by Bessière followed by "Ici Marseille Provence, Radiodiffusion-Télévision Française". – **Nancy:** Some movements from "A la Volette" followed by "Ici Radio Lorraine, Champagne, Radiodiffusion-Télévision Française". – **Rennes:** Some movements from "Jibdi" a popular dance, followed by: "Ici Radio Bretagne, studio de Rennes". – **Strasbourg:** The first movements of "Que notre Alsace est belle" followed by "Ici Strasbourg, Radiodiffusion-Télévision Française". – **Toulouse:** The first movements of "Montagnards" followed by "Ici Toulouse, Radiodiffusion-Télévision Française". **PUB.:** Weekly: Prgr.schedule.

FOREIGN SERVICE
Short Wave Centre Allouis and Issoudun: 13 transmitters, each 100 kW, and 1 transmitter 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
944	318	7165	41.87	9755	30.76	15400	19.48
1277	235	7220	41.55	9765	30.72	15420	19.45
1376	218	7240	41.44	10430	28.75	17715	16.93
3965	75.67	7280	41.21	11700	25.64	17765	16.89
5955	50.37	9520	31.51	11845	25.32	17780	16.87
5965	50.28	9540	31.45	11920	25.17	17830	16.83
6045	49.63	9550	31.41	15100	19.87	17850	16.81
6145	48.82	9560	31.38	15130	19.82	17900	16.76
6175	48.58	9585	31.30	15160	19.79	21580	13.90
6200	48.39	9620	31.19	15190	19.75	21620	13.88
7100	42.25	9640	31.12	15240	19.68	21640	13.86
7105	42.22	9675	31.01	15295	19.61	21720	13.81
7120	42.13	9680	30.99	15330	19.57	21740	13.80
7160	41.89	9750	30.77	15350	19.54		
				15365	19.52		

* Tangier

EUROPEAN SERVICE:
Arabic:
W. 10.30–11.00: m.w. network II Paris IV 912 kc/s
Bulgarian:
D. 19.00–19.45: 9675, 11700 kc/s
Czech, Slovak:
D.: 19.00–20.00: 3965, 5955, 15190* kc/s
English:
W. 07.45–08.00: 7160 kc/s[1])
Mo.-Fri. 22.00–23.00: 1376 kc/s
Sat., Sun.: 14.00–15.00: 7240 kc/s[2])
French (Danube-Balkan):
Sun.: 17.30–17.45: 5955, 7160 kc/s[2])
D.: 20.00–21.00: 3965, 5955, 9755, 15190* kc/s
German:
W. 18.00–19.00: 1277, 6045 kc/s[3])
Sun 18.40–19.30: 1277 kc/s
Greek:
D. 11.30–11.45: 15160 kc/s[4])
Hungarian:
D. 18.15–19.00: 3965, 5955, 9585, 9755 kc/s[5])
Polish:
W. 08.00–08.20: 1376 kc/s.
Sun. 10.00–11.00: 9755 kc/s[6])
W. 17.00–17.15: 5955, 7160 kc/s[1])
D. 17.30–18.00: 1376 kc/s
D. 19.00–20.00: 6045, 7160, 9755 kc/s
Portuguese:
W. 07.30–07.45: 7160 kc/s[1])
D. 19.00–19.30: 7240, 9585 kc/s
W. 19.30–19.45: 7240, 9585 kc/s[1])
Rumanian:
D. 18.15–19.00: 11700 kc/s
Spanish:
W. 07.15–07.30: 7160 kc/s[1])
D. 21.00–21.45: 6045, 7160 kc/s
W. 21.45–22.00: 6045, 7160 kc/s[1])
W. 22.00–22.45: 944 kc/s
Serbo-Croatian and Slovene:
D. 18.00–19.00: 7160, 9675 kc/s
Yiddish:
W. 21.15–21.30: 9755, 11845 kc/s

* Tangier. [1]) French lessons. [2]) Religious. [3]) incl. French lessons 18.45. [4]) Rel. R. Athens exc. Sun. [5]) Rel. by Tangier at 21.00 on 15190 kc/s. [6]) Polish mass from Paris.

OVERSEAS SERVICE:
I: Madagascar, Comoro Isl., Fr. Somaliland, Reunion, Kerguelen.
II: Tahiti, New. Caledonia, New. Hebrides.
III: Fr. West and Fr. Equatorial Af. – IV: Antarctic.
V: Antilles, Guiana, St. Pierre et Miquelon.
VI: Vietnam, Cambodia, Laos. – VII: M. East – VIII: Canada.
IX: No. Af. – X: Latin America.

French: Prgrs. daily: Le journal de Paris.

	Area:	kc/s		Area:	kc/s
01.30–01.45	I	11920	16.00–16.30	I	11845, 17765
06.00–06.43	II	9620, 11920, 15240	16.30–18.00	VII	11845, 15130, 17765
06.46–07.15	III	9620, 11920, 15240	17.30–17.45[8])	VIII	17850, 21580
			20.14–20.45	III	15160, 15365
07.18–07.48[1])	IV	9620			17715
10.30–11.00	V	21580, 21620	23.00–23.30	VI	11920, 15295
11.45–12.00	III	21620	23.30–01.00	V	11920, 15295
13.00–15.00[2])	VI	15160, 21620			

[1]) Mo. only. [2]) Sun. also 15.00–15.50 (Sport, music). [8]) Mo.–Fri.; Fri. 17.30–17.55.

See last minute information last page.

Spanish, Portuguese:
22.45–23.00 X 11845, 15130, 15350 kc/s.
ANN.: "Allo... (name of area) Paris vous parle". **V.** by QSL-card.

S.O.R.A.F.O.M. (Go. – an organization the purpose of which is im. provement and development of broadcasting in the "Etats membres de la Communauté" (France d'Outre Mer)).
L.P.: Pres. of the Board of Adm.: M. Chavanon (Dir. Gen. of "Radiodiffusion-Télévision Française"). Dir. Gen.: M. R. Pontillon. Secr. Gen.: M. J. Lansier.

O. I. R. T.
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STATIONS: Radio Mali (Dakar), R. Sénégal (Dakar), R. Mauritania (Saint Louis), R. Soudan (Bamako), R. Niger (Niamey), R. Cote d'Ivoire (Abidjan), R. Dahomey (Cotonou), Radiodiff. de la Republique du Togo (Lomé), R. Haute Volta (Quagadougou), R. Gabon (Libreville), Radio-Inter-Equatoriale (Brazzaville), R. Tchad (Fort Lamy), R. Bangui (Bangui), Radiodiffusion du Cameroun (Yaoundé, Douala, Garoua), R. Madagascar (Tananarive).

★ GERMANY ★

GERMAN FEDERAL REPUBLIC

DEUTSCHE WELLE

L.T.: GMT+1 h. – **Pr. L.:** German. – **Po.:** 52.804.000. – **Rcvrs.:** 15.720.244. – **E.C.:** 220 V., A.C., 50 c/s.

Kurzwellendienst der Arbeitsgemeinschaft der öffentlich-rechtlichen Rundfunkanstalten der Bundesrepublik Deutschland.

ADDR.: Deutsche Welle, Postfach 344, Köln. – **L.P.:** Intendant: Hanns Hartmann, Chief Editor: Dr. Hans Otto Wesemann. Dx-Editor: Horst A. C. Krieger.

OVERSEAS SERVICE: Jülich-DMQ-4 tr. – 100 kW, 1 tr. – 20 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
5980	50.17	9640	31.12	15375	19.51	21490	13.96
6115	49.06	9735	30.82	15405	19.47	21650	13.86
7170	41.84	11795	25.43	17815	16.84	21725	13.81
7205	41.64	11945	25.12	17845	16.81	21735	13.80
7290	41.15	15275	19.64	17875	16.79	25650	11.70
						25900	11.58

H. of tr.	Area	L.	kc/s
07.00–10.15	F. E.	G., E., F.	11795, 15275, 21650
10.30–11.00	N. E., Af., F. E.	Arabic	15405, 17815, 21650
16.00–19.15	N. E.	G., E., F.	11795, 15405
17.30–20.45	Af.	G., E., F.	17815, 15275
22.30–01.45	So. Am.	G., P., Sp.	9735, 11945
23.30–02.45	N. Am. East	G., E.	9640, 11795
03.00–06.15	N. Am. West	G., E.	11795, 11945

Two Frequencies are always used in every transmission.

Frequencies are subject to changes with seasonal variations or to avoid interference.

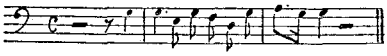
N. in German: 07.00, 09.45, 16.00, 18.45, 17.30, 20.15, 22.30, 23.30, 01.15, 02.25, 03.00, 05.55. – **N. in English and French:** 08.00, 17.00, 18.30. – **N. in English:** 00.30, 04.00. – **N. in Spanish and Portuguese:** 23.30. – **Comm. in German:** 09.55, 18.55, 20.25, 01.25, 02.35, 06.05. – **Mbg.: "Unter uns gesagt":** Wed.: 07.30, 16.30, 18.00, 23.00, 24.00. Thurs.: 03.30.

DX-Prgr. (in German and English): Every 2nd Mo. in the month: 07.30, 16.30, 18.00, 23.00, 24.00; Tues. 03.30. – **"Volksmusik":** Tues.: 07.15, 16.15, 17.45, 22.45, 23.45, Wed. 03.15; Sat.: 09.15, 18.15, 19.45; Sun.: 00.45, 01.55, 05.25. – **Request Prgr.:** Sat. fortnightly: 07.15, 16.15, 17.45, 22.45, 23.45; Sun.: 03.15.

L.L.: English: Mo., Wed., Thurs., Sat.: 10.00, 19.00, 20.30. – **American:** Tues., Wed., Fri., Sat.: 00.40, 04.10. – **French:** Tues., Fri.: 10.00, 19.00, 20.30, **Spanish:** Tues., Thurs., Fri., Sun.: 01.30. **Portuguese:** Wed., Sat.: 01.30.

ANN.: G.: "Hier ist die Deutsche Welle. Guten Abend, liebe Hörerrinnen und Hörer. Wir senden aus Köln über Richtstrahler nach... im... Meterband auf... kHz. Die Deutsche Welle sendet dieses Programm im Auftrag der Rundfunkanstalten der Bundesrepublik Deutschland. Sie hören uns heute von... bis... Greenwich Zeit". – **E.:** "Good evening, everybody! This is the Voice of Germany. Our program from Cologne is beamed to (area) on the... The frequency is... kilocycles. This program is sponsored by the broadcasting stations of the German Federal Republic and is on the air today from... to Greenwich Mean Time. We should like to inform our listeners that we broadcast news in English daily from... to... GMT.

INT.-SIG.: Motif from "Fidelio" by Beethoven: "Es sucht der Bruder seine Brüder" played on Celeste.



V. by QSL-card. – **PUB.:** Every fourth week and quarterly. Prgr. sched. free on request.

DER BAYERISCHE RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: München 2, Rundfunkplatz 1. **Cable:** "Bayernfunk München". – **L.P.:** Intendant: Dr. F. Stadelmayer. Prgr.-Coordinator: W. von Cube. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

HOME SERVICE

FIRST PRGR. on all frequencies: W. 04.30 (Sat., Sun. 05.00)–24.00 (exc. 08.55–09.35 m.w. only).

*) night only.

[1]) Kempten, Passau, Würzburg.

[2]) Augsburg, Landshut. [3]) Coburg, Regensburg.

M.waves:	kc/s	m	kW			kc/s	m	kW	
Nürnberg II	520	577	5,0	day	Nürnberg I	1602	187	20	day
Bayreuth	520	577	0,2*)					40	night
3 l.power[1])	520	577	0,2*)		Hof	1602	187	1	
München	800	375	100		Land./Isar	1602	187	20	*)
2 l.power[2])	1484	202	1,0*)		Kirchheim	1602	187	20	*)
					2 l.power[3])	1602	187	1	*)

Short Wave: München-Ismaning 6085 kc/s 49.3 m 10 kW.

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Lindau	4	88.3	0.5	Pfaffenberg b.	24	94.2	18
Burgst./H.Bogen	6	88.8	18	Aschaffenburg			
Traunst/Hochb.	7	89.05	3	Bamberg I	25	94.5	12
Rotbühl	8	89.4	1	Ochsenkopf/	30	96.05	60
Berchtesgaden	9	89.7	0.5	Fichtelgeb. I			
Hühn.b./b.Harb.	9	89.7	20	München I	30	95.95	0.5
BadReichenhall	11	90.3	0.5	Kreuzb./Rhön I	36	97.75	3
Wendelstein I	22	93.65	100	Dillberg I	39	98.7	18

N.: 05.00(W), 06.00(D), 07.00(D), 08.00(W), 12.00(D), 16.00(W), 18.45(D), 21.00(D), 23.00(D), – **"Echo der Zeit":** W. 17.30.

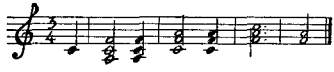
SECOND PRGR.: Mo.–Fri.: 04.30–08.50, 09.30–24.00. Sat., Sun.: 05.00–24.00.

Rel. First Prgr.: 04.30–05.05, 06.00–07.15; Mo.–Fri. 11.05–12.00; Wed., Fri., Sat. 23.00–24.00; Sun.: 05.00–06.05, 23.00–24.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Würzburg/ Frankenwarte	2	87.6	3	Hohe Linie	13	90.9	12
				Hohenpeissenberg	14	91.2	9
Tegernseer Tal	2	87.6	0.1	Brotjacklriegel	15	91.5	60
Landshut	3	87.9	0.1	München II	16	91.8	0.5
Gelbelsee/ Eichst. Alb.	5	88.5	12	Ochsenkopf/ Fichtelgeb. II	16	91.8	60
Kreuzb./Rhön II	8	89.4	60	Kreuzeck b.			
Coburg	10	90.0	3	Garm. Partenk.	20	93.0	0.5
Wendelstein II	10	90.0	100	Passau/Kühlberg	20	93.0	0.5
Grünten/Allgäu	12	90.5	60	Dillberg II	23	93.9	18
Bamberg/Geisb.II	13	90.9	12	Büttelb./Frankenh.	32	96.6	15

ANN.: "Hier ist der Bayerische Rundfunk". **E.:** "This is der Bayerische Rundfunk". – V. by letter. Prgr.sched. on request.

INT.-SIG.:



RADIO BREMEN (Anstalt des öffentlichen Rechts)

ADDR.: Heinrich-Hertz-Str. 13, Bremen. – **Cable:** Radio.

L.P.: Intendant: H. Kerneck. Dir. Prgr.: H. Friedrich. Dir. Tec.: A. Olshausen. Dir. Adm.: H. Oliver.

HOME SERVICE:

First Prgr.: W. 05.30–23.05. Sun. 06.00–23.05.

Bremen 1358 kc/s 221 m 20 kW – Bremerhaven 1079 kc/s 278 m 2 kW.

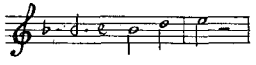
FM: Bremen I ch. 33 96.9 mc/s 18 kW., Bremerhaven I ch. 30 95.9 mc/s 0.5 kW.

Second Prgr., FM: W. 19.00–23.00. Sat. 15.00–23.00. Sun. 09.00–23.00 exc. 11.45–15.00.

Bremen II ch. 8 89.4 mc/s 18 kW – Bremerhaven II ch. 16 91.8 mc/s 0.5 kW.

N., Wrp., Commentary: (1st & 2nd prgr.): 05.30 (exc. Sun), 06.00 (exc. Sun.), 07.00, 12.00, 16.00 (exc. Sat., Sun.), 18.30, 20.30 (exc. Sun.), 21.00, 23.00. – **"Die Zeit im Funk":** W. 18.00–18.30.

ANN.: "Hier ist Radio Bremen mit dem ersten, bzw. zweiten Programm". – **INT.-SIG.:** – V. by QSL-card.



HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Bertramstrasse 8, Frankfurt-am-Main.

L.P.: Intendant: E. Beckmann. Dir. Prgr.: Dr. H. J. Lange. Dir. Adm.: Diplomkaufmann H. Weber. Dir. of the Staff: W. Heckroth. Dir. Tec.: Dr.-Ing.: F. Miseré. Justitiar: W. Lehr. Dir. Politic and News: Chief Editor O. Herr. Dir. Culture: Dr. J. Petersen. Dir. Education: Dr. G. Kadelbach. Dir. Music: Dr. H. W. Kulenkampff. Dir. Entertainment: W. Jaspert.

HOME SERVICE

PRGR. I:

Frankfurt 593 kc/s 505.8 m 100 kW d – Meissner 593 kc/s 505.8 m 20 kW d.

FM: Feldberg 88.53 mc/s 10 kW Biedenkopf 95.37 mc/s 10 kW
Hardberg 93.30 – 0.25 – Würzberg 96.0 – 0.25 –
Meissner 93.30 – 0.25 –

PRGR. II:
FM: Meissner 89.69 mc/s 10 kW Biedenkopf 91.20 mc/s 10 kW
Hardberg 89.70 – 0.25 – Feldberg 92.13 – 10 –
Würzberg 89.74 – 0.25 –

PRGR. I:	PRGR. I+II	PRGR. II
Sun. 04.00–04.00.	04.00–06.05, 07.00–07.15, 22.10–23.00.	06.05–07.00, 07.15–22.10,
Mo.+Tues. 04.00–09.10, 10.00–13.20, 14.00–04.00.	04.00–06.05, 07.15–13.30, 15.00–17.15.	06.05–07.15, 13.30–15.00, 17.15–23.00,
Wed. 04.00–08.40, 10.00–13.20, 14.00–04.00.	as Mo.+Tues.	as Mo.+Tues.
Thurs. 04.00–08.30, (10.00), 10.00–13.20, 14.00 04.00.	04.00–06.05, 07.15–13.30, 15.00–17.15	06.05–07.15, 13.30–15.00, 17.15–23.00
Fri. 04.00–09.10, 10.00–13.20, 14.00–04.00.	As Prgr. I. Close down 23.00	As Prgr. I. Close down 23.00
Sat. 04.00–04.00.	04.00–06.05, 10.00–10.30, 11.30–12.50, 21.35–24.00.	06.05–10.00, 10.30–11.30, 12.50–21.35, (24.00).
N.: 07.00 (W), 11.50 (Sun.), 18.40, 21.00.	04.00, 05.00, 06.00, 11.50 (W), 17.00 (W), 23.00.	07.10 (W), 13.20 (Sun) 20.08.
Wrps.: Before and after N. 11.50, (Sun), 18.40, 21.00.	Before and after N. 04.00. Each half h. until 07.00. After N. 11.50, 23.00.	After N.: 07.10 (W), 12.20 (Sun.), 20.08.

Commentary 1'Prgr.only: Mo.–Fri.: 18.54, 21.10. Sat. 21.05, Sun. 18.50.
ANN.: "Hier ist der Hessische Rundfunk" or "Hier ist Frankfurt".
INT.-SIG.: Electronic music. – **V.** by QSL-card. – **PUB.:** Prgr. schedule (half-yearly).

NORDDEUTSCHER RUNDFUNK

(Anstalt des öffentlichen Rechts).
ADDR.: Hamburg 13, Rothenbaumchaussee 132/34. **Cable:** Nordfunk. **Hannover:** Hannover, Rudolf-von-Bennigsen-Ufer 22. – **Studios: Flensburg:** Friedrich-Ebert-Str. 1. – **Oldenburg:** Oldenburg i.O., Jägerstr. 30 – **Berlin:** Berlin-Grünewald, Hubertusallee 26.
L.P.: Intendant; Dr. W. Hilpert. Prgr. Dir.: Dr. H.Arnold. Finanzdir.: G. Schultz. Technischer Dir.: Dr. H. Rindfleisch. Leiter des Aussenreferats: W. D. Schultz.

HOME SERVICES

FIRST PRGR.: D. 03.55 (Sun. 04.58)–00.15 (Sat. 01.15). **Nigth-prgr.** on 971 kc/s (Hamburg), 1586 kc/s (Oldenburg), Hamburg 92.1 mc/s, Harz 96 mc/s, Sun., Mo., Fri. 00.15–03.30. Sat. 01.15–04.30.

	kc/s	m	kW		kc/s	m	kW
Braunschweig	520	577	2	Flensburg	1570	191	10
Norden/Osterloog	701	428	5	Hannover	1586	189	40
Lingen	701	428	5	Kiel	1586	189	5
Göttingen	971	309	5	Oldenburg	1586	189	40
Hamburg	971	309	100	Osnabrück	1586	189	5

Short Wawes: Norden/Osterloog:
6075 kc/s 49.38 m 20 kW – 3970 kc/s 75.57 m 5 kW.
FM Stations (relay m.w. prgr. exc. night prgr.)

	ch.	mc/s	m		ch.	mc/s	m		ch.	mc/s	m
Oldenb.	2	87.6	100	Heide	10	90	15	Hamb.	31	96.3	50
Dannenb.	9	89.7	15	Hannov.	36	97.8	1.25	Harz	43	99.9	100
Bungsb.	29	95.7	0.5								

N. Wrp.: D.: 04.00(W), 05.00(W), 06.00, 07.00(W), 07.55 (Sun. 08.00), 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00.
SECOND PRGR.: W. 05.00–23.05. Sun. 06.30–23.05.

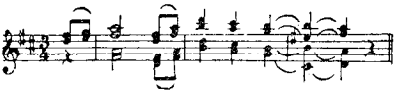
FM	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Lübeck	3	87.9	0.5	Brauns.	6	88.8	0.5	Heide	22	93.6	15
Harz	4	88.2	100	Bungsb.	15	91.5	0.5	Osnabr.	22	93.6	3
Hambg.	5	88.5	50	Flensbg.	20	93.0	15	Hannov.	23	93.9	5
Götting.	6	88.8	2	Osterlg.	21	93.3	15	Kiel	24	94.1	2
Lingen	6	88.8	15	Dannen.	21	93.3	15	Oldenb.	28	95.4	100

N. Wrp.: W.: 06.30, 07.30, 11.00, 17.00 (exc. Sat.), 18.55, 21.30. Sun.: 07.00, 18.55, 21.30. – **L.L.: French:** Mo., Thurs. 16.45–17.00. **English:** Tues., Fri. 16.45–17.00.
THIRD PRGR.: D. 19.00–approx. 21.30.

FM	ch.	mc/s	kW		ch.	mc/s	kW		ch.	mc/s	kW
Kiel	12	90.6	2	Hambg.	17	92.1	50	Harz	30	96.0	100
Hannov.	13	90.9	5	Götting.	18	92.4	1	Flensbg.	36	97.8	15
Oldenb.	14	91.2	100								

GERMAN LONG WAVE ("Im Auftrage der Westdeutschen Rundfunkanstalten"): Hamburg 151 kc/s 1986 m 50 kW. D. from 14.30–23.00.
Prgrs. consist of N., Music, "Deutschland-Echo" (W. 18.00).

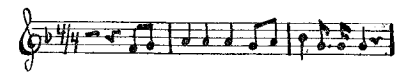
ANN.: 1st Prgr.: "Hier ist der Norddeutsche Rundfunk". – **2nd Prgr.:** "Hier ist der Norddeutsche Rundfunk auf Ultrakurzwelle". – **3rd Prgr.:** "Hier ist das Dritte Programm des Norddeutschen Rundfunk".
INT.-SIG.: 1st Prgr.: Motif from the first movement of Johs. Brahms' Symphony no. 2.



2nd Prgr.: "Einen verlegten Nonen-Akkord". – **3rd Prgr.:** The tones "B-A-C-H" in Regerharmonization. – **V.** by QSL-card.
PUB.: "Die Ansage". Weekly. Prgr. sched. weekly.

SAARLÄNDISCHER RUNDFUNK

(Gemeinnutzige Anstalt des öffentlichen Rechts).
ADDR.: Intendanz und Verwaltung Schloss Halberg, Saarbrücken – Brebach. **Cable:** Saarl. Rundfunk. – **L.P.:** Intendant: Dr. F. Mai. Programmdir.: Dr. A. Schum. Verwaltungsdir.: W. Klein. Tech. Dir.: Dipl. Ing. F. Glasow.
HOME SCE. in German: 1421 kc/s 211.1 m 100 kW.
FM.: 96.0 mc/s 10 kW Schaumberg – 98.9 mc/s 1.5 kW Schwarzenberg.
M.W. Prgr.: W. 04.57–08.30, 10.00–23.05. Sun. 05.30–23.05. – **M.W. N.Wrp.:** 05.00 (W), 06.00, 07.00 (Sun.), 07.30 (W), 12.00, 17.00 (W), 18.30 (Sat., Sun.), 21.00, 23.00.
FM Prgr.: Rel. m.w. exc.: W. 17.15 (Sat. 15.00)–22.00. Sun. (07.15–13.00, 16.00–22.00.
ANN.: "Hier spricht der Saarländische Rundfunk auf Wellenlänge 211 m (bzw. Ultrakurzwelle 96.0 und 98.9 MHz).
INT.-SIG.: "Glück auf, der Steiger kommt." – **V.** by QSL-card and letter.



EUROPE NO. 1

ADDR.: Europäische Rundfunk und Fernseh AG., Saarbrücken, Dudweilerstrasse 57/59, Saarbrücken. **L.P.:** Lucien Gillet, Prof. Dr. Eugen Meyer, Frédéric Billmann. – **PRGR.-Addr.:** Telecompagnie, 28, Rue François Ier, Paris 8e. **Cable:** EURADIO. **L.P.:** Sylvian Floirat, Louis Merlin, Maurice Siegel. – **ADVERTISEMENT-Addr.:** Regie No. 1, 28, Rue Francois Ier, Paris 8e. **L.P.:** Lucien Gillet, Wormser, Carcassonne.
D.PRGR.: Felsberg, 182 kc/s 1647 m 400 kW: D. 05.30 (Sun. 06.00)–24.00. – **N.:** D. 05.30, 06.30 (Sun.), 07.30 (W), 18.30, 22.55.
ANN.: "Ici Europe No. 1 – Hier spricht Europa Nr. 1 – This is Europe No. 1".

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts).

ADDR.: Neckarstrasse 145, Stuttgart-O. – **Cable:** Rundfunk Stuttgart **Studios:** Heidelberg-Mannheim: Heidelberg, Marstallstr. 6. Karlsruhe: Kriegsstr. 168. – **L.P.:** Vorsitzender des Rundfunkrats: Dr. Valentin Gaa, Landrat (Mdl.), Schwetzingen. Vorsitzender des Verwaltungsrat: Dr. rer. nat. h. c. Dr. ing. e. h. Alex Möller, Generaldir. (Mdl.), Karlsruhe. Intendant: Dr. Hans Bausch. Programmdir.: Dr. Peter Kehm. Verwaltungsdir.: Friedrich Müller. Technischer Dir.: Dr. Helmut Rupp. Dir. TV: Dr. Hans Bausch.

HOME SERVICE

MEDIUM WAVE PRGR. (relayed by S.W. and FM): Mo., Fri. 03.56–03.30 – Tues., Thurs. 03.56–23.15 – Wed. 03.56–03.55 – Sat. 03.56–24.00 – Sun. 04.56–23.10 – (Interval: Mo.–Fri. 13.25–14.00).

Stations	kc/s	m	kW		kc/s	m	kW
Mühlacker	575	522	100	Schwäbisch-Hall	1484	202	0.2
Heidelberg-Dossh.	998	301	10	Eberbach	1484	202	0.2
Buchen-Walldürn	998	301	0.2	Mosbach	1484	202	0.2
Ulm-Jungingen	1169	257	3	Bopfingen	1484	202	0.2
Heilbronn-Obereisesh.	1169	257	10	Ellwangen	1484	202	0.2
Bad Mergenth.	1412	212	3	Adelsheim	1484	202	0.2
Wertheim	1484	202	0.2	Gerabronn	1484	202	0.2
Heidenheim	1484	202	0.2	Giengen	1484	202	0.2
Crailsheim	1484	202	0.2	Kirchberg	1484	202	0.2
				Kühlsheim	1484	202	0.2
				Neresheim	1484	202	0.2

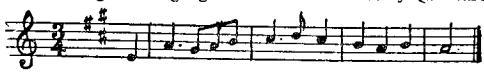
Short Wave: Mühlacker: 6030 kc/s 49.75 m 20 kW

FM:	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart I	25	94.5	100	Waldenburg I	10	90.0	100
Aalen I	19	92.7	50	Geislingen I	14	91.2	0.5
Heidelberg I	15	92.5	40	Ulm I	3	87.9	0.5

N.: W.: 04.30, 05.00, 06.00, 07.00, 08.00, 12.00, 17.00, 19.00, 22.00, 23.00. Sun.: 07.00, 09.00, 12.00, 19.00, 22.00, 23.00.
FM-PRGR.: W. 05.10–23.15(Sat. 24.00). Sun. 07.05–23.10 – (Interval Mo.-Fri. 09.15–09.45).

	ch.	mc/s	kW		ch.	mc/s	kW
Stuttgart I	22	93.6	100	Wertheim	19	92.72	0.05
Stuttgart II	21	93.2	0.3	Buchen	19	92.67	0.1
Degerloch II	13	90.9	100	Bad Mergenth.	6	88.85	0.1
Ulm II	15	91.5	0.5	Mühlacker	6	88.8	4.5
Aalen II	7	89.1	50	Heidelberg II	3	87.9	40
Geislingen II	2	87.6	0.5				

N.: W.: 05.00, 06.00, 07.00, 08.00, 12.00, 17.00, 19.00, 22.00, 23.00. Sun.: 07.00, 09.00, 12.00, 19.00, 22.00, 23.00. – **"Volksmusik":** Tues. 16.30–17.00 (fortnightly). Sun. 06.10–07.00 (every 4 weeks).
ANN.: "Süddeutscher Rundfunk". – **INT.-SIG.:** The first notes of a Swabian folksong: "Jetzt gang i ans Brünnele". – **V.** by QSL-card.



SÜDWESTFUNK (Anstalt des öffentlichen Rechts).
ADDR.: Anstalt des öffentlichen Rechts, Hans Bredowstrasse, Baden-Baden. **Cable:** Südwestfunk Baden-Baden. – Studios: **Freiburg i Br.:** Günterstal, Kyburg. **Mainz:** Deutschhausplatz 8. **Tübingen:** Matthias-Koch-Weg 7. – "Zweigstellen": **Kaiserslautern:** Auf dem Sess. **Koblenz:** Januarius-Zick-Str. 8. **Trier:** Zeughausstr. 27.
L.P.: Vorsitzender des Rundfunkrates: Prof. Dr. K. Holzamer, Mainz. Vorsitzender des Verwaltungsrates: Dr. J. Knecht, Freiburg i Br. Intendant: Senator h.c. Prof. Fr. Bischoff. Programmdir. u. stellvertretender Intendant: L. Hartmann. Tech. Dir.: E. Becker. Verwaltungsdir.: A. Manke. Presse u. Inf.: H. R. Fröbel. Leiter Freiburg Studio: E. Brugger. Leiter Mainz Studio: T.W. Zwermann. Leiter Tübingen Studio: A. G. Richter.
HOME SERVICE
PRGR. I: Sun. 05.50–24.00. W. 04.45–23.10 (Wed. 24.00, Sat. 01.00).

M.Waves:	kc/s	m	kW		kc/s	m	kW
Bad Dürrheim	665	451	20	Sigmaringen	827	363	3
Baden-Baden	827	363	3	Trier	827	363	3
Freiburg	827	363	40	Rheinsender	1016	295	120
Kaiserslautern	827	363	3	Ravensburg	1538	195	40
Koblenz	827	363	0.5	Reutlingen	1538	195	10

Short Wave: Bad Dürrheim 7265 kc/s 41.29 m 1.5 kW.

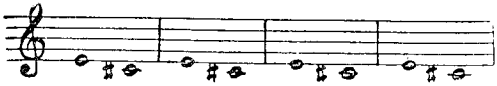
FM	ch.	mc/s	kW		ch.	mc/s	kW
Baden-Baden I	18	92.5	0.25	Linz I	36	97.8	3
Betzdf. I/West	20	93.0	0.25	Potzberg I	28	95.4	3
Blauen I	29	95.7	3	Raichberg I	16	91.8	3
Feldberg I	22	93.6	0.25	Witthoh I	2	87.6	1.5
Haardtkopf I	38	98.4	5	Wolfsheim I	33	96.9	3
Hochrheinsd. I	7	89.1	0.1	Hornisgrinde I	20	93.0	10
Koblenz I	25	94.5	1				

N., Wrp.: 04.50 (W), 06.00, 07.00, 08.30 (W) 11.45, 15.00 (W), 21.00, 23.00. – **"Tribüne der Zeit":** W. 18.30. Sun. 18.40. – **"Deutsche Pressestimmen":** W. 12.00. – **French by R.:** Mo., Thurs. 08.45.
PRGR. II: Sun. 05.50–24.00. W. 04.45–23.10. (Wed. 24.00, Sat. 01.00).

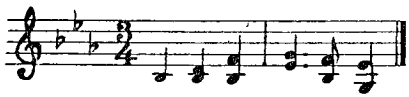
FM	ch.	mc/s	kW		ch.	mc/s	kW
Baden-Baden II	10	89.9	0.25	Mainz II	21	93.3	0.05
Betzdorf II	8	89.4	0.25	Linz II	30	96.0	3
Blauen II	3	87.9	1	Potzberg II	14	91.2	3
Eifel II	4	88.2	2	Raichberg II	4	88.2	3
Feldberg II	38	98.4	0.25	Waldburg II	18	92.4	3
Haardtkopf II	10	90.0	5	Weinbiet II	11	90.3	6
Hochrheinsd. II	19	92.7	0.1	Witthoh II	14	91.2	1.5
Hornisgrinde II	8	89.4	10	Wolfsheim II	41	99.3	3
Koblenz II	13	90.9	1				

N. Wrp.: 04.50 (W), 06.00, 07.00 (W), 09.00 (Sun)., 11.00, 13.45 (Sun.), 15.00 (W), 19.00, 21.00, 23.00. **French by R.:** Mo., Thurs. 09.00.
ANN.: "Hier ist der Südwestfunk. Über Mittelwelle und UKW I hören Sie... Über UKW II hören Sie..." – **INT.-SIG.: Baden-Baden:** Motif from Mozart's "Zauberflöte": "Bald prangt den Morgen zu verkünden" (Piano).

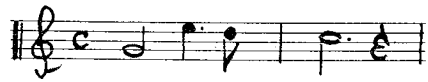
Studio Freiburg: Glockenmotif des Freiburgers Münsters: "Petrus und Maria".



Studio Tubingen: "Droben im Oberland" (2 horns).



Landesstudio Rheinland-Pfalz (Mainz): The first movements in the song: "Dort wo der alte Rhein" (Celesta). – **V.** by letter.



WESTDEUTSCHER RUNDFUNK (W.D.R.) (Anstalt des öffentlichen Rechts).
ADDR.: Wallrafplatz 5, Köln. **Studios: Bonn,** Bundeshaus. **Dortmund,** Westenhellweg 86/88. **Bielefeld,** Lessingstr. 3. **Munster,** Warendorferstr. 1. **Düsseldorf,** Schadowstr. 72. – **L.P.:** Intendant.: H. Hartmann. Justitiar u. Finanzdir.: Dr. H. Brack. Verwaltungsleiter: H. Sand. Tec. Dir.: K. Schulz. Pressechef: J. Rick. Aussenreferat: Frau Dr. F. Hömke.
HOME SCE.:
M.W.-Prgr.: W. 03.55–09.30, 10.00–03.53 (Sat. 10.00–04.55), Sun. 04.58–03.53.

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Aachen/Stolb.	701	428	2	Münster	1502	199.7	0.8
Herford	701	428	2	Bonn	1586	189	5
Siegen	755	397	2	Kleve	1586	189	3
Langenberg	971	309	100				

FM. Common WDR and NDR m.w. prgr.

	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	3	87.9	100	Nordhelle	39	98.7	15
Köln	21	93.4	0.5	Teutob. Wald	42	99.6	100
Aachen	38	98.4	5				

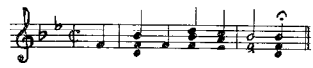
N.: W. 04.00, 05.00, 06.00, 07.00, 07.55, 12.00, 16.00 (exc. Sat.), 18.00, 20.45, 23.00, Sun. 06.00, 08.00, 12.00, 18.00, 20.45, 23.00. Commentary Mo.-Fri. 18.15–18.20. – **L.L.: English:** Thurs. 08.35, Fri. 10.05. **French** Thurs. 08.15.
1st. FM-prgr.: Mo.-Sat. 05.45–23.00. Sun. 06.00–23.00.

	ch.	mc/s	kW		ch.	mc/s	kW
Bonn	9	89.7	0.5	Siegen	16	91.8	0.5
Köln	9+89.75		0.5	Nordhelle	23	93.9	15
Aachen	10÷89.9		5	Teutob. Wald	24	94.2	100
Monchau	10	90.0	0.05	Münster	25	94.5	5
Kleve	15	91.5	0.25	Langenberg	29	95.7	100
Eifelsender	16	91.8	6				

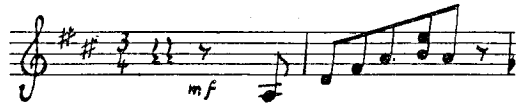
N.: W. 06.30, 07.30, 11.30, 16.45 (Sat. 17.10), 19.00, 22.00. – Sun. 07.30, 11.40, 19.00, 22.00. – **L.L.: English:** Thurs. 09.55, Wed. 10.05. **French:** Fri. 10.05.
2nd FM-prgr.: Sat. 19.00–21.00, Sun. 14.30–16.30.

	ch.	mc/s	kW		ch.	mc/s	kW
Langenberg	11÷90.2		50	Münster	13	90.9	5
Teutob. Wald	12+90.65		100	Nordhelle	32	96.6	15

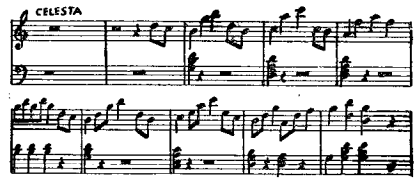
ANN.: 1st Prgr.: "Westdeutscher Rundfunk". – 2nd Prgr.: "Westdeutscher Rundfunk, Ultrakurzwellenprogramm", "Westdeutscher Rundfunk, zweites Ultrakurzwellenprogramm".
INT.-SIG.: M.W. Prgr.: Motif from "In allen guten Stunden" (L. van Beethoven). Electronic instrument.



1st FM Prgr.: Motif from the second movement of the third symphony Es-flat (Robert Schumann) played on Celeste.



2nd FM Prgr.: Motif from the "Magic Flut" (Mozart): "Das klinget so herrlich, das klinget so schön" played on Celeste.



BERLIN–WEST

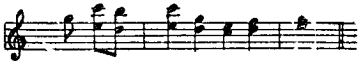
RIAS-Berlin (United States Information Agency).
ADDR.: Berlin-Schöneberg, Kufsteinerstr. 69. – **Cable**: RIAS-Berlin. – **L.P.**: Dir.: A.A. Klieforth. Dir. Prgr.: Heinz-Adolf von Heintze. Dir. Adm.: M. R. Braun. Dir. Tec.: Albert Pösniker. Dir. Listeners Rel.: Dr. Claus Brock. Dir. Press: H. O. Sauber.

STATIONS:	kc/s	m	kW	
München[3])	173	1735	1000	D. 04.30–07.30, 10.45–12.00 20.00–21.00
Berlin/Hof[1])	683	439	100	D. 24 h. exc. Sat. 01.05–04.00 on 737 kc/s. From 16.45 (Sat.17.00, Sun.13.00) –23.00. **RIAS II** on 737/6005 kc/s (Sun. until 17.00 also 683 kc/s).
Hof	737	407	40	
Berlin[2])	854	351	20	
Berlin[1])	989	303	300/200	
Berlin[2])	6005	49.94	20	

FM	ch.	mc/s	kW
Berlin[2])	6	88.8	10
Berlin[1])	17	92.1	3

[1]) RIAS I. [2]) RIAS II. [3]) VOA.

N., Wrp.: D. 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30, 05.30, 06.30, 07.30, 08.30, 10.00(W), 11.30, 12.30(W), 15.30(Sun., RIAS I). – **RIAS I**: 18.00, 20.00(W), 21.00(Sun.), 22.00(W). – **RIAS II**: 15.30 (Sun.), 17.30, 19.30(W), 20.30(Sun.), 22.00. – **N. on 173 kc/s**: D. 04.30, 05.30, 06.30, 07.15(W), 11.00(W), 11.30(Sun.), 11.50.
"Aus der Zone für die Zone": RIAS II W. 17.45, RIAS I W. 18.15. – **"Die Woche in Bonn"**: Sun. 09.30–10.00.
ANN.: "Hier ist RIAS-Berlin". – **INT.-SIG.**: From a Trio Sonata.



V. by QSL-card, addressed to: Hörerpost. – **PUB.**: Press sce. fortnightly. RIAS schoolbroadcast every six weeks.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

ADDR.: Masuren Allee 8–14, Berlin-Charlottenburg 9, (West Berlin). **Cable**: Sender Freies Berlin.
L.P.: Intendant: W. Geerdes. Dir. Prgr.: H. H. Fischer. Dir. Adm.: H. Koch. Dir. Tec.: U. Blässer.
HOME SCE.:

Berlin 1st Prgr.	566 kc/s	530 m	20 kW
FM	90.0 mc/s		10 –
Berlin 2nd Prgr.	1484 kc/s	202 m	5 –
FM	93.6 mc/s		10 –

1st Prgr.: Mo.-Fri. 03.55–03.30. Sat. 03.55–04.30. Sun. 04.58–03.30.
2nd Prgr.: Mo.-Fri. 15.00–23.35. Sat. 13.00–23.10. Sun. 06.58–00.05.
ANN.: "Hier ist der Sender Freies Berlin mit dem ersten Prgr. ... zweiten Prgr.". – **INT.-SIG.**: Beethoven's Egmont-Fanfare. – **V.** by QSL-card. – **F.PL.**: 100 kW m.w. tr. at the end of 1959 (for 1st Prgr. 566 kc/s).

ALLIED STATIONS

AMERICAN FORCES NETWORK (United States Army)

The American Forces Network operates solely to provide American Forces in Europe with information, education and entertainment by means of radio broadcasting.
ADDR.: United States Army Element. American Forces Network, Europe APO 757, New York, N.Y., USA. – **L.P.**: Chief, American Forces Network: Lt. Colonel S. S. Kale. Prgr. Supervisor: D. Brewer. Tec. Supervisor: F. C. Mortensen.

STATIONS:	kc/s	m	kW		kc/s	m	kW
Munich*)	548	547	100A	Bamberg	1304	230	0.25B
Nürnberg*)	611	491	10A	Berchtesgaden	1304	230	0.25A
Grafenwöhr	611	491	10B	Heidelberg	1304	230	1A
Kaiserslaut.*)	611	491	10A	Regensburg	1304	230	0.25B
Frankfurt*)	872	344	150A	Fulda	1304	230	0.25B
Berlin*)	935	321	10A	Wertheim	1304	230	0.25B
Ansbach	1034	290	0.25B	Bitburg	1394	215	0.25A
Bad Kissingen	1034	290	0.25B	Garmisch	1502	199.7	0.25B
Stuttgart*)	1106	271	100A	Giessen	1502	199.7	0.25B
Bremerhaven*)	1142	263	5A	Straubing	1502	199.7	0.25B
Hersfeld	1142	263	0.25B	Rothwesten	1502	199.7	0.05A
Schweinfurt	1142	263	0.25B	Wildflecken	1502	199.7	0.05A
Würzburg	1142	263	0.25B	*) Studio installations.			

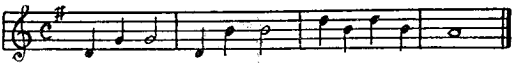
FM: Frankfurt FM 94.9 kc/s 3.16 m 10 kW A.
D. PRGR.: A. 05.00(Sun. 06.00)–24.00. B. 14.00–24.00.
"Request Show": W.: 05.30, 10.35, 16.05, 23.50.
N.: Every h. on the h. – **Local N.**: Mo.-Fri. 16.50.
ANN.: "This is AFN, The American Forces Network, Europe" announced at least every half hour. – **INT.-SIG.**: Every h. on the h. AFN announces the time and the sixth and final pip is exactly on the h. as announced. – **V.** by letter.

BRITISH FORCES NETWORK (Military)

B.F.N.'s function is to entertain and provide a reliable news service for members of H.M. Forces and their dependants in N.W. Germany and Berlin.
ADDR.: BFN, Cologne, British Forces Post Office 19. – **L.P.**: St. Dir.: I. J. Woolf. S.P.O.: D. G. Philips. Dir. Tec.: A. L. Langford.
STATIONS: FM

	mc/s	kW		mc/s	kW		mc/s	kW
Langenberg	89.15	60	Bonn	91.4	3	Berlin	94.3	3
Nordhelle	89.15	18	Herford	93.0	6	Drachenberg	99.3	60
Verden	90.3	60						

English: 05.30 (Sun. 07.00)–22.30(Sat. 24.00). – **N. from BBC**: 07.00, 08.00, 12.00, 18.00, 21.30. N. summaries on the half h. hourly. – **N. of Germany**: W.: 06.50, 12.10. – **Mbg.**: Two way exchange with the BBC Light Prgr.: Sun. 12.00–18.00. – **Club**: Mo.-Fri. 17.00. – **For you at Home**: W. 08.10. – **Wrp.**: 06.30, 07.10, 12.10, 18.15, 22.30.
ANN.: "This is the British Forces Network in Germany". – **INT.-SIG.**: British Army Bugle Call "Fall-in" played on Celeste.



V. by letter. Listeners report appreciated. R.p. – **PUB.**: BFN bulletin weekly.

RADIO FREE EUROPE

(Private, non-commercial) – by American contribution.
ADDR's.: **Radio Free Europe**, a Division of the Free Europe Committee Inc., 2 Park Avenue, New York 16, New York, USA. – **European address**: Englischer Garten 1, München 22, Germany. – **Cable**: Raduropa.
L.P.: Pres. Free Europe Committee Inc. (New York): Archibald S. Alexander. Dir., Radio Free Europe: Thomas H. Brown, Jr. European Dir.: Erik Hazelhoff. Ass. European Dir.: Charles J. McNeill, J. David Penn. Dir. of Engineering: Claude M. Harris. European Dir. of Engineering: Russell E. Geiger Jr.
STATIONS:
Medium Wave: Holzkirchen 719 kc 417.2 m 135 kW.
Short Wave: Eight s.w. tr.s in Biblis, Germany (10, 20, 50 kW), and thirteen s.w. tr.s in Portugal (10, 50, 100 kW).

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3960	75.75	7155	41.93	9705	30.91	11885	25.24	15405	19.47
5960	50.37	7165	41.87	9712	30.89	11895	25.22	15420	19.46
5970	50.25	7175	41.80	9715	30.88	11915	25.17	17725	16.93
5985	50.12	7180	41.78	9717	30.87	11930	25.15	17735	16.92
5990	50.08	7192	41.72	9725	30.85	11940	25.13	17770	16.88
6015	49.88	7205	41.64	9750	30.77	15115	19.85	17805	16.85
6020	49.83	7225	41.52	11725	25.59	15135	19.82	17835	16.82
6095	49.22	7235	41.47	11735	25.56	15145	19.81	17840	16.82
6105	49.14	7245	41.41	11745	25.54	15170	19.78	17855	16.80
6125	48.98	7285	41.18	11755	25.52	15185	19.76	17875	16.79
6130	48.94	7295	41.12	11760	25.51	15195	19.74	17885	16.78
6160	48.70	9505	31.56	11775	25.48	15215	19.71	21485	13.97
6185	48.50	9595	31.27	11805	25.41	15255	19.66	21600	13.89
7105	42.22	9605	31.23	11815	25.39	15265	19.66	21620	13.87
7115	42.16	9655	31.07	11820	25.38	15295	19.61	21665	13.84
7140	42.02	9670	31.02	11830	25.36	15355	19.54	21720	13.81
7145	41.99	9695	30.95	11855	25.31	15365	19.53	21745	13.80

Most RFE frequencies are registered for use both in Germany and in Portugal and the selection of transmission location is a function of propagation conditions throughout the year.
D. PRGR. directed to Bulgaria, Czechoslovakia, Hungary, Poland, and Rumania:

BULGARIAN SCE.: 04.00–05.00 (Sun. 05.00–06.00), 17.00–18.00, 20.00–22.00, 22.30–23.00 in 49, 41, 31, 25, 19, 16, and 13 m.b.: N. every h. on the h.

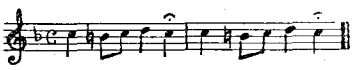
CZECH/SLOVAK SCE.: 03.57 (Sun. 05.57)–22.00, 22.40–23.00 on 417 m, and in 75, 49, 41, 31, 25, 19, 16 and 13 m.b.: N. every h. on the h.

HUNGARIAN SCE.: 04.25 (Sun. 06.55)–22.00, 22.20–22.40 on 417 m and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

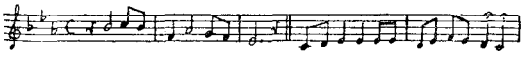
POLISH SCE.: 03.55 (Sun. 05.50)–22.20 on 417 m, and in 75, 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.

RUMANIAN SCE.: 05.00–06.00 (Sun. 06.00–07.00), 16.00–17.00, 18.00–20.00, 22.00–22.30 in 49, 41, 31, 25, 19, 16, 13 m.b.: N. every h. on the h.
Meter band assignments change throughout the year as propagation conditions vary.
ANN.: Sign on and sign off: **Bulgarian**: "Tcok e Radio Svobodna Evropa" ("This is Radio Free Europe").

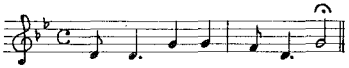
Czechoslovak: "Hlásí se vám československá stanice rozhlasu Svobodná Evropa" ("This is the Czechoslovak Station of Radio Free Europe calling").
Hungarian: "Itt a Szabad Europa Radiója" ("This is Radio Free Europe").
Polish: "Mówi rozgłośnia Polska Radia Wolna Europa" ("This is the Polish station of Radio Free Europe").
Rumanian: "Aici e Radio Europa Libera, Jurnalul vorbit al Romanilor de pretutindeni" ("Here is Radio Free Europe, the spoken journal of all Rumanians").
INT.-SIG.:
Bulgarian: Part of Bulgarian National Anthem (Celeste):



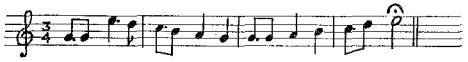
Czech/Slovak: Czech and Slovak National Anthem (Celeste):



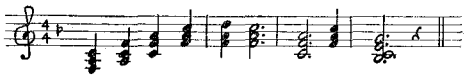
Hungarian: Old Hungarian folksong: "From the Tisza, past the Danube".:



Polish: Polish patriotic song: "Hail Glorious Dawn of May". (Brass instruments):



Rumanian: Rumanian folk tune. (Piano and Celeste).



RADIO FFB

Relay station for entertainment of the French Forces in Berlin.
ADDR.: Kurt-Schumacher-Damm, Quartier Napoléon, Berlin-Reinickendorf. – FM 96.75 mc/s 3 kW: Continuously exc. from 09.00–10.00 Mo., Wed., Fri., and Fri. 00.00–06.15. – **Rel.:** RTF prgrs.

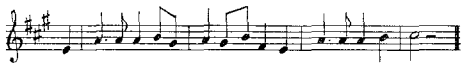
RADIO LIBERTY (Pr. – Former Citizens of the U.S.S.R.)

R. Liberty speaks to the peoples of the U.S.S.R. and the Soviet Armed Forces as the free voice of their fellow countrymen abroad. R. Liberty is supported by the American Committee for Liberation, Inc., which derives its funds from contributions from private persons and organizations in the U.S.A. and which also operates the transmitting facilities.
ADDR.: Radio Liberty, Lilienthalstrasse 2, Munich 19. – **Cable:** AmComLib – or: American Committee for Liberation, Inc., 1657 Broadway, New York 19, New York, U.S.A. – **L.P.: Headquarters, New York:** Pres. of the American Committee: H. Sargeant. Dir. R. L. Network Division: S. Y. McGiffert. Chief Eng.: R. G. Hartmann. – **Munich:** Deputy to the Pres., Europe: R. F. Kelley. Dir. R. Programming Division: R. Bertrandias.

STATION Lampertheim 9 s.w. tr. 20 and 50 kW (E.R.P.)

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3990	75.18	7255	41.35	9730	30.83	11925	25.16	15410	19.47
6055	49.55	7275	41.23	9765	30.72	11935	25.13	17710	16.94
6175	48.58	9565	31.36	11720	25.60	11965	25.06	17720	16.93
6185	48.50	9585	31.30	11755	25.52	15105	19.86	17730	16.92
7130	42.08	9595	31.26	11765	25.50	15225	19.70	17745	16.91
7170	41.84	9660	31.06	11780	25.47	15255	19.65	17755	16.90
7220	41.55	9665	31.04	11785	25.46	15300	19.61	17765	16.89
7225	41.52	9680	30.99	11825	25.38	15370	19.52	17785	16.87
7245	41.40	9705	30.91	11920	25.17	15395	19.49	17865	16.80

D. PRGR.: 00.00–24.00. Prgr.'s are prepared in Munich.
Target areas:
E. Germany 75, 49, 41, 31, 25 m.b. – Hungary 75, 49, 41 m.b. – No. So. Russia, Byelo-Russia, Ukraine 49, 41, 31, 25, 19, 16 m.b. – Tartaristan, Bashkiristan, Caucasus, Turkestan 41, 31, 25, 19, 16 m.b.
ANN.: Russian: "Govorit Rədiostantsiya Svoboda". – **Ukrainian:** "Hovoryt Radio Svoboda". – **Byelorussian:** "Havoryts Radyio Svaboda". – **Adyg:** "Kä gushaäryr Sxafitynyghä Radio Stantsiyem". – **Armenian:** Khosume "Azatutyun" Radiokayanä. – **Avar:** Kalala Radio "Erkenli". – **Azerbaidyanian:** Danishir "Adadlik" Radiosu. – **Chechen-Inghush:** Harayu Radio "Parghato". – **Georgian:** Laparakobs Radio Sadguri-Thavisu phleba. – **Karachai-Balkar:** Söleshgen Azatlik Radiostansyasidi. – **Kazakh:** Söylepturghan Azattik radiosi. – **Kirgiz:** Azattik radiosu süylöyt. – **Osset:** "Dzury radio Säribar. – **Tadzik:** Indjo Radio "Ozodi". – **Tartar Bashkir:** "Azatlyk Radiosysöi'li". – **Turkmen:** "Gepleyär Azatlik Radiosi". – **Uzbek:** Azatlik radiosi gapiradi.
INT.-SIG.: Hymn to Freedom — by Gretchaninoff.
Radio Liberty Germany.



VOICE OF AMERICA RADIO STATION IN GERMANY

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Long Wave: Munich-C 173 kc/s 1734 m 1000 kW 04.30–07.30, 10.45–12.00, 17.00–00.15.
Medium Wave: Munich A 1196 kc/s 251 m 150 kW 04.00–06.30, 17.00–23.30.
Short Wave: Munich 8/100 kW 02.00–07.30, 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3980	75.38	7160	41.90	11760	25.51	15415	19.46
6100	49.18	7250	41.38	11960	25.08	15440	19.43
6140	48.86	9545	31.43	15205	19.73	17720	16.93
6185	48.50	9670	31.02	15210	19.72	17735	16.92
7110	42.19	11715	25.61	15330	19.57	17895	16.76

DAILY PRGR.:
Long Wave:

04.30–07.30 RIAS	20.00–21.00 RIAS	22.00–22.30 **English**	
10.45–12.00 RIAS	21.00–21.30 Russian	22.30–22.45 **French**	
17.00–19.15 **English**	21.30–22.00 Polish	22.45–23.00 **German**	
19.15–19.30 **German**		23.00–00.15 **English**	
19.30–20.00 Polish		(Music USA)	

Medium Wave:

04.00–04.30 **English**	17.00–18.30 **English**	21.00–21.15 Serb.
04.30–04.45 Serb.	18.30–19.00 Lithuan.	21.15–21.30 Slovene
04.45–05.00 **French**	19.00–19.30 Serb.	21.30–22.00 Polish
05.00–05.30 **English**	19.30–20.00 Polish	22.00–22.30 **English**
05.30–05.45 Serb.	20.00–20.30 Estonian	22.30–23.00 Czech
05.45–06.00 **French**	20.30–21.00 Latvian	23.00–23.30 Hungar.
06.00–06.30 **English**		

Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Munich". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

GERMAN DEMOCRATIC REPUBLIC

L.T.: GMT+1 h. – **Pr.L.:** German. – **Po.:** 16.380.000. – **Rcvrs.:** 5.396.847. – **E.C.:** 220 V, A.C. 50 c/s.

STAATLICHES RUNDFUNKKOMITEE (Go.)

ADDR.: Staatliches Rundfunkkomitee, Berlin-Oberschöneweide, Nalepastrasse 18-50. – **Cable:** Funkkomitee. – **L.P.: Dir. Gen.:** Prof. Dr. H. Ley. Vice Dir. Gen.: W. Perk, Prof. G. Eisler. Dir. Adm.: H. Ebel. Dir. Tec.: W. Schmidt. Dir. Foreign Rel.: M. Müller. Intendant: H. Classen (Deutschlandsender), W. Perk (Berliner Rundfunk), W. Kleinert (Radio DDR).
HOME SERVICES in German:
Deutschlandsender: 24 hours. 881 kc/s 340.5 m 100 kW
185 kc/s 1621.6 m 100 kW 6115 – 49.06 – 5 –
782 – 383.6 – 250 – 7300 – 41.10 – 5 –
FM: Schwerin 89.2 mc/s, Inselsberg 94.0 mc/s, Brocken 94.6 mc/s, Sonneberg 97.6 mc/s, Berlin 98.2 mc/s.
N., Wrp.: D.: 01.00, 02.00, 03.00(W), 03.30(W), 04.00, 04.30(W), 05.00, 05.30(W), 06.00, 07.00, 09.00, 11.00(W), 12.00, 14.00(W), 16.00, 18.30, 21.00, 23.00, 24.00. – **Commentary: W.:** 18.42, 23.07(rep.). Sun.: 11.00, 23.07(rep.).
Berliner Rundfunk 1. Prgr.: 03.30–24.00(Sat. 01.00).

	kc/s	m	kW		kc/s	m	kW
Karl-Marx-St.	602	498	20	Plauen	1079	278.1	20
Berlin	611	491	500	Bernburg	1196	250.8	2
Reichenbach	912	328.9	20				

FM: Dresden 89.8 mc/s – Stülpe 91.6 mc/s – Müggelberge 92.8 mc/s – Leipzig 96.4 mc/s – Marlow II 96.7 mc/s.
N., Wrp.: D.: 03.33(W), 04.30, 05.30, 06.30, 07.30(W), 09.30, 11.30(W), 12.30, 15.30(W), 18.30, 20.30, 22.30, 23.30. – **Commentary: W.:** 18.42, 23.35 (rep.). Sun. 11.30.
Berliner Rundfunk 2. Prgr.: 15.30(15.45 Sun.)–01.00. **Rel. Berlin 1: W.** 05.00–15.30. Sun. 05.30–15.45.
FM: Stülpe 91.6 mc/s – Müggelberge 92.8 mc/s.
N., Wrp.: D.: 16.00, 17.00 (Mo.–Fri.), 19.00 (exc. Sat.), 20.00(W), 21.30 23.00. – **Commentary: D.:** 18.00, 23.05(W. rep.).

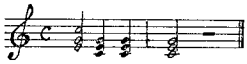
Radio DDR. 1. Prgr.: 24 hours.

	kc/s	m	kW		kc/s	m	kW
Cottbus	520	576.9	5	Schwerin	728	412.1	20/220
Berlin	529	567.1	20	Dresden	1043	287.6	240
Potsdam	557	538.6	20	Suhl	1052	285.1	20
Leipzig	575	521.7	120	Seelow	1570	191.1	
Erfurt	692	433.8	20	Leipzig	9730	30.83	12

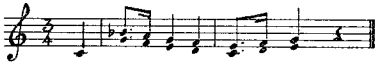
FM: Görlitz 95.2 mc/s.
N., Wrp.: D: 01.00 (exc. Sat.), 03.05, 04.00, 04.30(W), 05.00, 06.00, 07.00(W), 08.00(Sun.), 09.00(W), 10.00, 11.00(W), 13.00, 15.00(Sat.), 16.00 (exc. Sat.), 18.00, 21.00, 23.00, 24.00(Sat.).
Commentary: Sun. 12.00. W. 18.12.
Radio DDR. 2. Prgr.: D. 17.00(Sun. 16.05)–23.00. **Rel. Radio DDR 1. Prgr.:** 03.00–17.00 (Sun. 16.05).
M.W.: Greifswald 656 kc/s 457.2 m. – **FM:** Jessen 91 mc/s, Marlow I 91 mc/s, Burg 97 mc/s, Schwerin II 97.3 mc/s, Helpterberg 97.6 mc/s, Rheinsberg 95.2 mc/s, Karl-Marx-Stadt 99.5 mc/s.
N., Wrp.: D. 20.00. - **Commentary:** W. 17.00.

RADIO BERLIN INTERNATIONAL:
European Service:
Königswusterhausen 6115 kc/s 49.06 m, 7300 kc/s 41.10 m, Leipzig 9730 kc/s 30.83 m.
English: 18.00–18.30, 20.00–20.30, 22.00–22.30. – **French:** 18.30–19.00, 20.30–21.00, 22.30–23.00. – **Danish:** 17.30–18.00, 19.00–19.30, 21.00–21.30. – **Swedish:** 17.00–17.30, 19.30–20.00, 21.30–22.00. **DX-prgr.:** First Mo. in the month at 17.00.
Near East Service:
Nauen 6080 kc/s 49.34 m, 11765 kc/s 25.50 m – Leipzig 9730 kc/s 30.83 m.
Arabic: 04.00–06.00, 11.00–13.00, 17.00–20.00. – **German:** 06.00–07.00, 13.00–16.00, 20.00–23.00. – **English:** 16.30–17.00.
ANN.: Home Service: "Hier ist der Deutschlandsender (Berliner Rundfunk)". "Hier ist Radio D.D.R. mit seinen Sendern". – **R. Berlin International: English:** "This is Radio Berlin International the Voice of the German Democratic Republic". **French:** "Ici Berlin. La Republique Démocratique Allemande vous parle". **Swedish:** "Här är Radio Berlin. Tyska Demokratiska Republikens internationale sändningar". **Danish:** "Her er Berlin. Den tyske demokratiske republik sender til Danmark". **German to Near East:** "Hier ist Radio Berlin International, die Stimme der Deutschen Demokratischen Republik".

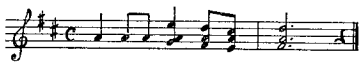
INT.-SIG.: Deutschlandsender: From "Die Meistersinger von Nürnberg" (Richard Wagner)



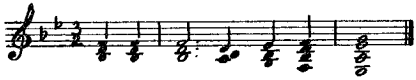
Berliner Rundfunk I: Motif from Opera "Regina" (Albert Lortzing) performed by 2 French horns.



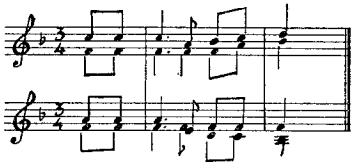
Berliner Rundfunk II: Motif: Heimat wir lassen dich nicht "from the cantata" Des Sieges Gewissheit composed by the National-Prizewinner Erns -Hermann Meyer performed by 3 trumpets.



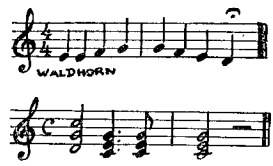
Radio D.D.R. I: "Wann wir schreiten Seit an Seit" ("mit uns zieht die neue Zeit").



Radio D.D.R. II: Melody: "Mit uns zieht die neue Zeit"



Foreign Sce.: Theme from Ludwig van Beethovens 9. symphony ("Freude, schöne Götterfunken"):



V. by QSL-card. – **PUB.:** "Unser Rundfunk", weekly.

★ GIBRALTAR (British Colony) ★

L.T.: GMT. – **Pr.L.:** English, Spanish. – **Po.:** 25.000. – **Rcvrs.:** 4750. – **E.C.:** 110/240 V., A.C., 50 c/s.
RADIO GIBRALTAR (Go., Comm.)
ADDR.: British Colonial Secretariat, Gibraltar. – **L.P.:** British Colonial Secretariat (Officer in Charge), Public Rel. Officer: E. H. Davis. Dir. Tec.: T. G. Black W.D.
STATION: Wellington Front 1484 kc/s 202.2 m 0.5 kW.
D. PRGR.: English, Spanish: W.: 07.55–09.30, 11.50–16.00 (Sat. 11.00–24.00), 17.55–24.00. Sun.: 09.55–16.00, 17.55–24.00.
N. Spanish: 12.30, 22.30. – **Wrp. English:** 7.25, 10.55.

★ GREAT BRITAIN ★

L.T.: GMT (Su.: GMT+1 h.). – **Pr.L.:** English. – **Po.:** 50.383.000. – **Rcvrs.:** 14.646.350. – **E.C.:** 210/250 V., A.C., 50 c/s.
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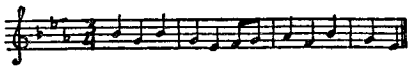
ADDR.: Broadcasting House, London W.1. – **L.P.:** Dir. Gen.: Hugh Carleton-Greene, OBE. Dir. of Sound Broadcasting: R. E. L. Wellington, CBE. Dir. of TV-Broadc.: G. C. Beadle, CBE. Dir. of External Broadc.: Sir J. Beresford Clark, KCMG, CBE. Dir. Eng.: Sir Harold Bishop, CBE. Dir. Adm.: T. R. P. Hole, CBE. Dir. Staff Adm.: J. H. Arkell. Chief Asst. to Dir. Gen.: H. J. G. Grisewood. Dep. Dir. TV-Broadc.: C. McGivern, CBE. Asst. Dir. Sound Broadc.: R. D'A. Marriott, DFC. Asst. Dir. of External Broadc.: E. Tangye Lean, CBE. Controller, Prgr. Organization (Sound): M. F. Standing. Controller, Prgr. Planning (Sound): H. Rooney Pelletier. Controller Third Prgr.: P. H. Newby. Controller Prgr., TV: K. Adam. Controller, Overseas Sces.: D. M. Hodson. Controller, European Sces.: James Monahan. Controller Music: W. Glock. Editor, News: D. I. Edwards, OBE. Controller, Talks (Sound): J. D. F. Green. Chief Eng.: R. T. B. Wynn, CBE. Controller Finance: J. G. L. Francis. Controller, Scotland: A. Stewart, CBE. Controller, Wales: A. B. Oldfield-Davies, CBE. Controller, N. Ireland: R. McCall, CMG. Controller, W. Region: F. G. Gillard, OBE. Controller, Midland Reg.: H. J. Dunkerley, CBE. Controller, North Reg.: R. Stead. Controller, Prgr. Sce's TV: S. J. de Lotbinière, CVO, OBE. Controller TV Adm.: S. G. Williams, OBE. Controller TV Engineering: M. J. Pulling, CBE.
HOME SCE.: W. 06.45–23.36 approx. Sun. 07.50–23.36 approx.

		kc/s	m	kW
Cromer	Northern	692	434	2
Moorside Edge	–	692	434	150
Whitehaven	–	692	434	2
Barrow	–	1484	202	2
Westerglen	Scottish	809	371	100
Burghead	–	–	–	100
Redmoss	–	–	–	5
Dumfries	–	–	–	2
Washford	Welsh	881	341	100
Penmon	–	–	–	8
Towyn	–	–	–	5
Wrexham	–	–	–	2
Brookmans Park	London	908	330	140
Ramsgate	–	1484	202	2
Start Point	West	1052	285	120
Barnstaple	–	–	–	2
Clevedon	–	1457	206	20
Bartley	–	–	–	10
Brighton	–	–	–	2
Folkestone	–	–	–	1
Bexhill	–	–	–	2
Redruth	–	–	–	2
Droitwich	Midland	1088	276	150
Postwick	–	–	–	7.5
Lisnagarvey	N. Ireland	1151	261	100
Londonderry	or Northern	–	–	0.25
Stagshaw	–	–	–	100
Scarborough	–	–	–	2

N.: 06.30(W), 07.00(W), 08.00, 09.00, 10.30(W), 11.30(Sat.), 13.00, 18.00, 21.00, 23.00.
Greenwich T.S.: 07.00(W), 08.00, 09.00, 11.00(W), 13.00, 18.00, 23.00.
LIGHT PRGR.: W. 06.30–24.00. Sun. 09.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Droitwich	200	1500	400	Moorside Edge	1214	247	50
BrookmansPark	1214	247	50	Plymouth	–	–	0.25
Burghead	–	–	20	Redmoss	–	–	2
Lisnagarvey	–	–	10	Redruth	–	–	2
Londonderry	–	–	0.25	Newcastle	–	–	2
				Westerglen	–	–	50

N.: 06.30(W), 07.30(W), 08.30(W), 09.30, 10.30(W), 11.30(W), 12.30(W), 13.30*) 14.30*), 15.30*), 16.30*), 17.30*), 18.30*), 19.30, 20.30(W), 21.30(W), 22.30, 23.30(W). – *) Mo.-Fri.
Greenwich T.S.: 07.45, 09.00(W), 10.00(W), 11.00(W), 12.00(exc. Sat.), 14.00(W), 19.00(W), 19.30(Sun.), 22.30. – **INT.-SIG.:** Oranges and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration. Also, Harp arpeggio – choice of six harp interludes.
THIRD PRGR.: 20.00 (Sat. 18.00, Sun. 27.00)–23.00 approx.
Daventry (150 kW), Edinburgh, Glasgow (2 kW) 647 kc/s 464 m
Newcastle Redmoss (2 kW), Belfast Bournemouth, Dundee Exeter (0.25 kW), Brighton Fareham (1 kW) 1546 – 194 –
Leeds, Liverpool, Preston, Plymouth, Redruth, Swansea, Cardiff (1 kW), Stockton (0.25 kW) 1484 – 202 –
NETWORK THREE: Mo.–Fri. starts between 18.00– and 19.00–20.00. Sat. 16.00–18.00. (Transmitters as for Third Prgr.)

FM	Home Sce.	Light Pr.	Third Pr.	kW E.R.P.
Wrotham (Kent)	93.5	89.1	91.3	120
Pontop Pike (Newcastle)	92.9	88.5	90.7	60
Divis (Belfast, N. Ireland)	94.5	90.1	92.3	60
No. Hessary Tor (So. Devon)	92.5	88.1	90.3	60
Meldrum (Aberdeenshire)	93.1	88.7	90.9	60
Holme Moss (No. England)	93.7	89.3	91.5	120
Sutton Coldfield (Birmingham)	92.7	88.3	90.5	120
Norwich (Norfolk)	94.1	89.7	91.9	120
Blaen Plwyf (We. Wales)	93.1	88.7	90.9	60
Wenvoe (So. Wales)	94.3* 92.125**	89.95	96.8	120
Rowridge	92.9	88.5	90.7	60
Kirk O'Shotts	94.3	89.9	92.1	120
Sandale (Carlisle)	94.7*** 92.5****	88.1	90.3	120
Rosemarie (Moray Firth)	94.0	89.6	91.8	6
Llanddona (Anglesey)	94.0	89.6	91.8	6
Llangollen (No. Wales)	93.3	88.9	91.1	7

*) Welsh Home Sce. **) We. of England Home Sce. ***) Northern Home Sce. ****) Scottish Home Sce.

EXTERNAL SERVICES

kc/s	m	kc/s	m	kc/s	m	kc/s	m
3952.5	75.90	6195	48.43	9550	31.41	9770	30.71
3975	75.47	7110	42.19	9555	31.40	9825	30.53
5975	50.21	7120	42.13	9560	31.38	9915	30.26
5990	50.08	7130	42.08	9570	31.35	11680	25.68
6010	49.92	7135	42.05	9580	31.32	11700	25.64
6035	49.71	7140	42.02	9600	31.25	11725	25.58
6040	49.67	7150	41.96	9615	31.20	11730	25.58
6050	49.59	7185	41.75	9625	31.17	11750	25.53
6060	49.50	7200	41.67	9640	31.12	11770	25.49
6070	49.42	7210	41.61	9660	31.06	11780	25.47
6080	49.34	7220	41.55	9675	31.01	11790	25.45
6090	49.26	7230	41.49	9690	30.96	11800	25.42
6110	49.10	7250	41.38	9700	30.93	11820	25.38
6125	48.98	7260	41.32	9725	30.85	11840	25.34
6140	48.86	7280	41.21	9735	30.82	11860	25.30
6150	48.78	7325	40.96	9740	30.80	11880	25.25
6165	48.66	9410	31.88	9750	30.77	11890	25.23
6170	48.62	9510	31.55	9755	30.75	11910	25.19
6175	48.58	9525	31.50	9760	30.74	11930	25.15
6180	48.54	9530	31.48	9765	30.72	11945	25.12
11955	25.09	15310	19.60	17790	16.86	21660	13.85
11960	25.08	15360	19.53	17810	16.84	21675	13.84
11965	25.07	15375	19.51	17860	16.80	21710	13.82
12040	24.92	15390	19.49	17870	16.79	21720	13.81
12095	24.80	15420	19.46	17890	16.77	21740	13.80
15070	19.91	15435	19.44	21470	13.97	25650	11.70
15110	19.85	15447.5	19.42	21485	13.96	25720	11.66
15140	19.82	17700	16.95	21530	13.93	25750	11.65
15180	19.76	17715	16.93	21550	13.92	25840	11.61
15210	19.72	17730	16.92	21630	13.87	25850	11.60
15230	19.70	17740	16.91	21640	13.86	26080	11.50
15260	19.66	17745	16.91	21650	13.86		
15300	19.61	17755	16.90	21655	13.85		

The above frequencies are shared between the European and Overseas Services and in addition the following frequencies on Long and Medium Waves are used in the European Services.
200 kc/s 1500 m 1295 kc/s 232 m FM: Berlin 87.6 mc/s
647 – 464 – 1340 – 224 –
The two columns below show the wavebands which the BBC expects to use during the months from October to March and April to September. Details of wavelengths can be obtained from the programme journals, and are always announced at the microphone.

EUROPEAN SERVICES:

	Oct.-March m.b.	April-Sept. m.b.
In Albanian:		
17.45–18.15 N. Prgr.	31, 25	25, 19
In Bulgarian:		
04.30–04.45 N.	49, 41, 31, 25	41, 31, 25, 19, 16
11.00–11.15	19, 16, 13	19, 16, 13
14.30–14.45	19, 16, 13, 11	19, 16, 13, 11
16.15–16.30	25, 19, 16, 13, 11	19, 16, 13
20.30–21.00 Prgr.	31, 25, 19	25, 19, 16*
In Czech:		
05.15–05.30 N. Tues., Thurs., Fri., Sun.	15,00, 464, 232, 75, 49, 41, 31	1500, 49, 41, 31, 19, 16
13.45–14.00	31, 25, 19, 16, 13	25, 19, 16, 13
17.30–17.45 E. by R. Sun., Tues., Thurs., Sat.	31, 25, 19, 16	31, 25, 19, 16
20.00–20.30	49, 41, 31, 25	31, 25, 19, 16*
22.15–22.30 Mo., Tues., Wed., Fri., Sat.	232, 224, 75, 49, 41	232, 224, 41, 31, 19
In Slovak:		
05.15–05.30 Mo., Wed., Sat.	1500, 464, 232, 75, 49, 41, 31	1500, 49, 41, 31, 25, 19, 16
11.45–12.00	31, 25, 19, 16, 13	25, 19, 16, 13
17.00–17.15	232, 31, 25, 19,	31, 25, 19, 16, 13
22.15–22.30 Thurs., Sun.	16, 13	
In English:		
05.00–05.15 E. by R.	49, 41, 31	49, 41, 31, 25
06.00–06.30 N., Prgr.	464, 49, 41, 31, 25, 19	464, 49, 41, 31, 25, 19
06.45–07.00 E. by R.	232, 75, 49, 41, 31, 25, 19[1]	464, 232, 49, 41, 31, 25, 19[1]
07.00–07.30 N., Prgr.	464, 232, 49, 41, 31, 25, 19[1]	464, 232, 49, 41, 31, 25, 19[1]
10.15–10.30 Rel. Sce.** / W. only	31, 25	31, 25
12.15–12.30 E. by R.		
12.30–12.45 E. by R. / Dict.	41, 31, 25, 19, 16 / 13	41, 31, 25, 19, 16, 13
12.45–13.00 N. (Dictat)		
16.45–17.00 E. by R.	232, 41, 31, 25, 19[1]	232, 41, 31, 25, 19, 16[1]
17.15–17.30 E. by R.	232, 224, 41, 31, 25, 19	232, 224, 41, 31, 25, 19, 16
17.30–18.15 N., Prgr.	232, 224, 41, 31, 25, 19	232, 224, 41, 31, 25, 19
18.15–18.30 Press Rev.	224, 41, 31, 25, 19, 16, 13	224, 41, 31, 25, 19, 16, 13
19.00–19.15 E. by R.	224, 75, 41, 31, 25	224, 41, 31, 25, 19
19.15–19.30 Dictation	224, 75, 41, 31, 25	224, 41, 31, 25, 19
19.30–19.45 N.	224, 75, 41, 31	224, 41, 31, 25, 19
21,15–21.30 E. by R.	232, 224, 75, 49,	232, 224, 49, 41,
21.45–22.00 N.	41, 31[1]	31, 19[1]
In Finnish:		
15.30–16.00 (Sun.)		16, 19, 25
15.45–16.00 E. by R. (Mo., Wed., Thurs., Sat.)	31, 25, 19	25, 19, 16
16.00–16.45 Prgr.	31, 25, 19	25, 19, 16
18.45–19.00 N.	41, 31, 25	31, 25, 19, 16
In French:		
06.30–06.45 N. (W)	464, 49, 41, 31	464, 49, 41, 31
07.30–07.45 (Sun.)	464, 49, 41, 31	464, 49, 41, 31
11.30–12.00 N.	464, 31, 25, 19	464, 31, 25, 19
19.45–20.45 N., Prgr.	224, 49, 41, 31	224, 41, 31, 25

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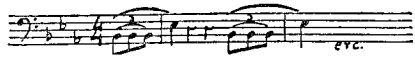
Great Britain

	Oct.-March	April-Sept.
In German:	**m.b.**	**m.b.**
04.45–05.15 Prgr.	1500, 232, 75, 49[1]	1500, 232, 49, 41, 31[1]
05.45–06.30	232, 75, 49, 41[1]	232, 49, 41, 31[1]
12.30–13.00 Rel. (Sun.)	232, 25, 19[1]	232, 25, 19[1]
12.30–12.45 N. (W)	232, 25, 19[1]	232, 25, 19[1]
18.15–18.30 "Lernt E."	232, 41[1]	232, 31, 25[1]
19.00–21.15 N. Prgr.	232, 49, 41[1]	232, 31, 25[1]
In Greek:		
05.00–05.15 N.	41, 31, 25	31, 25, 19
12.45 13.00 N.	19, 16, 13	19, 16, 13
18.30–19.00 Prgr.	19, 16, 13	19, 16, 13
20.15–20.30 E. by R. (Sun., Mo., Wed., Fri.)	19, 25	
In Hebrew:		
17.15–17.45	25, 19, 16, 13	19, 16, 13
In Hungarian:		
04.45–05.00 N.	464, 224, 49, 41, 31, 25	464, 41, 31, 25, 19, 16
05.45–06.00 N.	1500, 232, 75, 49, 41, 31, 25	41, 31, 25, 19, 16
12.00–12.15 N.	25, 19, 16, 13	25, 19, 16, 13
13.00–13.15	25, 19, 16, 13	
14.00–14.15		25, 19, 16, 13
16.45–17.00 Prgr.	31, 25, 19, 16, 13	31, 25, 19, 16, 13
17.30–17.45 E. by R. (Mo., Wed., Fri.)	31, 25, 19, 16	31, 25, 19, 16
19.30–20.00 Prgr.	41, 31, 25, 19*	25, 19, 16*
21.30–21.45	232, 224, 75, 49, 41, 31	232, 224, 41, 31, 25, 19, 16
In Italian:		
12.15–12.30 N.	25, 19, 16	31, 25, 19
18.30–19.00 Press Rev., Prgr.	41, 31, 25	25, 19
21.00–21.45 Prgr.	41, 31, 25	31, 25, 19
In Polish:		
04.30–04.45		1500, 464, 49, 41, 31, 25
05.30–05.45	1500, 464, 232, 75, 49, 41, 31	
06.30–06.45	75, 49, 41, 31	31, 25, 19
12.45–13.00 E. by R. (Wed., Sat.) 13.00–13.15	41, 31, 25	31, 25, 19, 16, 13
14.00–14.15	31, 25, 19, 16, 13, 11	
17.15–17.30		31, 25, 19, 16
18.15–19.00	31, 25, 19	31, 25, 19, 16
21.00–21.30	224, 49, 41, 31	224, 41, 31, 25, 19
22.00–22.15	224, 232, 75, 49, 41, 31	
In Rumanian:		
04.15–04.30 N.	49, 41, 31, 25	49, 41, 31, 25, 19, 16
10.45–11.00	19, 16, 13	19, 16, 13
14.15–14.30	19, 16, 13, 11	19, 16, 13, 11
16.00–16.15	25, 19, 16, 13, 11*	19, 16, 13*
19.00–19.30 N. Prgr.	31, 25, 19*	25, 19, 16, 13*
21.45–22.00 N.	49, 41, 31, 25*	41, 31, 25, 19, 16*
In Russian:		
03.45–04.15	464, 224, 75, 49, 41, 31, 25	464, 224, 49, 41, 31, 25, 19, 16, 13
15.00–15.30 N. Prgr.	31, 25, 19, 16,	31, 25, 19, 16, 13,
15.30–15.45 Mo., Wed., Thurs., Sat. 15.45–16.00 Tu., Fri.	13, 11	11
17.00–17.15 E. by R.	31, 25, 19, 16, 13	
17.45–18.15	31, 25, 19, 16, 13	31, 25, 19, 16, 13
20.30–21.00	49, 41, 31, 25, 19	31, 25, 19, 16
23.15–23.30 N.	232, 224, 75, 49, 41, 31, 25, 19	1500, 464, 232, 49, 41, 31, 25, 19, 16
In Spanish:		
13.00–13.15 E. by R. (Mo., Tues., Thurs., Fri.)	31, 25, 19	31, 25, 19
13.15–13.30 N.	31, 25, 19	31, 25, 19
21.15–22.00 N. Prgr.	41, 31	31, 25
In Turkish:		
05.30–05.45 N.	41, 31, 25	31, 25, 19, 16
15.45–16.00	19, 16, 13	19, 16, 13
19.00–19.30	25, 19, 16	19, 16, 13
20.15–20.30 E. by R. (Tues., Thurs., Sat.)	19, 25	
In Serbo-Croat:		
13.15–13.30 N.	25, 19	25, 19
13.30–13.45 (Sun.)	25, 19	25, 19
13.30–13.45 E. by R. (Mo., Wed.)	25, 19	25, 19
14.45–15.15 Slovene (Sun.)	25, 19	25, 19
16.30–16.45 N.	25, 19	25, 19
18.15–18.30 Slovene	31, 25	25, 19
19.30–20.15 N. Prgr.	31, 25	25, 19

* and on additional wavelengths.
** Su. 1 h. earlier. [1] also 87.6 mc/s. Berlin.

GREENWICH TIME-SIGNALS at the hour are radiated on one or other of the European Prgrs. on the long, medium or s.w. normally scheduled at 05.00, 06.00, 07.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 19.00, 20.00, 21.00, 22.00. – **Big-Ben:** 19.00 and 20.00. **ANN.: E.:** "This is London calling in the European Service of the BBC". – **Fr.:** "Ici Londres". – **G.:** "Hier ist England". – **I.:** "La Voce di Londra". – **INT.-SIG.: for European Service:** Morse Signal "V" (V for Victory) played on Timpani (i.e. ...–).



OVERSEAS SERVICES:

GENERAL OVERSEAS SERVICE:
The General Overseas Service, which operates for 22¼ hours a day, (03.30–08.00, 09.15–03.00) and which can be heard at suitable listening times all over the world, is addressed to English-speaking listeners wherever they may be. All Prgrs. are in English. The times at which the General Overseas Service is directed to various parts of the world and the appropriate wavebands are:

	Oct.-March	April-Sept.
Australia:	**m.b.**	**m.b.**
06.00–08.00	31, 25, 19	25, 19
09.15–11.30	16, 13, 11	19, 16, 13, 11
20.00–22.15	31, 25, 19, 13	31, 25, 19, 16, 13
N. Zealand:		
06.00–08.00	31, 25, 19	25, 19, 16
09.15–11.30	16, 13, 11	19, 16, 13
20.00–22.15	31, 25, 19, 13	31, 25, 19, 16, 13
Japan, N. China, NW Pacific:		
09.15–13.15	25, 19, 13	19, 13
So. Ea. Asia, India, Pakistan, Ceylon:		
01.45–02.15	31, 25	25, 19
09.15–18.15	25, 19, 16, 13, 11	19, 16, 13, 11
E. Africa, Egypt, Sudan, Israel, Jordan, Turkey, Lebanon:		
03.30–08.00	41, 31, 25, 19, 16, 13	31, 25, 19, 16, 13
09.15–21.15	25, 19, 13, 11	25, 19, 13, 11
Iraq, Persia:		
03.30–08.00	31, 25, 19, 16	31, 25, 19, 16
14.15–20.15	31, 25, 19, 13	25, 19, 13
Malta, Greece, Italy, C. Mediterranean:		
03.30–08.00	41, 31, 25, 19, 16, 13	41, 31, 25, 19, 16, 13
09.15–21.15	41, 31, 25, 19, 13	31, 25, 19, 13, 11
C. and So. Africa:		
03.30 08.00	31, 25, 19, 16, 13	31, 25, 19, 16, 13
09.15–22.45	25, 19, 13, 11	25, 19, 13, 11
No. Africa:		
03.30–08.00	41, 31, 25, 19	41, 31, 25, 19
16.00–22.45	31, 25, 19, 13	31, 25, 19, 13
We. Africa:		
04.30–08.00	31, 25, 19, 16, 13	25, 19, 16, 13
09.15–22.45	25, 19, 13, 11	25, 19, 13, 11
Gibraltar, W. Mediterranean:		
04.30–08.00	49, 41, 31, 25, 19	49, 41, 31, 25, 19
09.15–22.45	31, 25, 19, 13, 11	31, 25, 19, 13
So. Georgia:		
22.15–00.45	25	25
Canada, USA, Mexico:		
21.15–03.00	31, 25, 19, 16	31, 25, 19, 16
W. Indies, C. America, So. America, (No. of Amazon):		
20.00–23.15	19, 16, 13	19, 16, 13
23.45–03.00	31, 25, 19, 16	25, 19, 16, 13
So. America:		
20.00–03.00	25, 19, 16	31, 25, 19, 16

N.: 02.00, 03.00, 03.30, 04.00, 05.00, 06.00, 07.00, 09.15, 11.00, 13.00, 16.00, 18.00, 20.00, 23.00.
Home News from Britain: 06.24, 07.20, 11.09 (Sun.), 11.15 (ex. Sun.), 18.09, 23.09.
Radio Newsreel: 00.00, 06.15, 14.00, 18.20.
From the Editorials: 00.50 (ex. Sun.), 03.39, 04.39, 07.09, 09.30.
Greenwich Time Signal: 00.00, 02.00, 03.00, 05.00, 06.00, 07.00, 09.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00, 15.30, 16.00, 17.00, 18.00, 20.00, 21.00, 22.00, 23.00.
Big Ben: 14.00 (Full Strike).
ANN.: "This is the General Overseas Service of the BBC." – **INT.-SIG.:** Bow Bells. –

The General Overseas Service is also rebroadcast by the BBC Far Eastern Station and by the East Mediterranean Relay. (See below).

PACIFIC SERVICE:	Oct.-March m.b.	April-Sept. m.b.
Australia, N. Zealand in English daily:		
08.00–08.45	25, 19, 13	
06.00–07.00		25, 19, 16

ASIAN SERVICE:		
China and Japan:		
09.00–09.15	13	19, 13
11.00–11.30	19, 13	19. 13
12.00–12.45	13	19, 16, 13
South East Asia:		
09.00–09.15	13, 11	13, 11
10.30–13.45	13, 11	13, 11
India, Pakistan, Ceylon	13.45–15.45	13, 11
East Africa*	14.15–15.45	13

09.00–09.15 Japanese, 10.30 Indonesian, 11.00 Japanese, 11.30 Vietnamese, 12.00 Kuoyu, 12.30 Cantonese, 12.45 Malay, 13.00 Burmese, 13.15 Thai, 13.45 Sinhalese (Tues. and Fri.), Tamil (Sun. and Thurs.), Bengali (Mon. Wed. Sat.), *14.15 Urdu, 15.00 Hindi.

ARABIC SERVICE:		All year round
M. East:	03.45–05.45	41, 31, 25, 19
	11.00–21.00	25, 16, 13, 11
Ea. Africa:	03.45–05.45	25, 19
	11.00–21.00	19, 16, 13, 11
No. Africa: }	04.45–05.45	41, 31
Morocco: }	11.00–21.00	31, 25

SCE. TO E. AFRICA	m.b.	SCE. TO W. AFRICA	m.b.
09.45–10.15 English (Sat. only)	13, 11	11.45–12.00 Hausa	13, 11
		13.45–14.00 Hausa	13, 11
10.15–10.30 Somali	13, 11	**SCE. TO MAURITIUS**	
10.30–10.45 Swahili	13, 11	10.45–11.00 English and French (2nd Tues. in the month)	13,11
10.45–11.00 English (Mo. only)	13, 11		
14.30–14.45 Somali	13, 11		
15.45–16.00 Swahili	13, 11	**SCE. TO SO. AFRICA**	
SCE. TO W. AFRICA	**m.b.**	10.45–11.00 English (Sun. Mo., Thurs.)	13, 11
11.00–11.45 English	13, 11		

SCE. TO RHODESIA & NYASALAND:	
10.00–10.15 English (Thurs., Sat.)	13, 11

SCE. TO MALTA:	Oct.–March m.b.	April–Sept. m.b.
10.00–10.15 Maltese (exc. Thurs., Fri., Sat.)	19, 13, 11	19, 13, 11
SCE. TO FALKLAND ISLANDS:		
22.00–22.30 (Sun. only) English	19, 16	25, 19, 16
SCE. TO W. INDIES:		
23.15–23.45 English daily	19, 16	19, 16, 13

NORTH AMERICAN SCE.:		
Canada, USA, Mexico		
12.00–12.15	16, 13	16, 13
14.15–18.15*	19, 16, 13	16, 13

*English exc. 15.20–15.35 (Thurs.), 15.05–15.20 (Fri.), 16.45–16.50 (Mo. to Fri.) when French.

SCE. TO ANTARCTIC:		
22.00–22.30 (Tues.) English	31, 25, 19	31, 25

LATIN AMERICAN SERVICE:			
C. America, S. Caribbean Area, So. Am. (No. of Amazon)			
Spanish:	01.00–02.30	25, 19	25, 19
Portuguese:	23.00–00.15	19, 16	19, 16
Mexico			
Spanish:	01.00–02.30	25	25
So. Am. (S. of Amazon)			
Spanish:	23.00–00.30	19, 16	19, 16
Portuguese:	23.00–00.15	19, 16	19, 16

N. in Spanish: 23.00, 00.00, 01.00, 02.00. N. in Portuguese: 23.00, 00.00.

BBC FAR EASTERN STATION

ADDR.: Thompson Road Studios, P.O. Box 434, Singapore.
Cable: Febrocast. L.P.: Head of Service: G. A. Tree.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6110	49.10	11725	25.59	15360	19.53	21650	13.86
6175	48.58	11780	25.47	15420	19.46	21655	13.86
7120	42.13	11820	25.38	15435	19.44	21720	13.81
7135	42.05	11880	25.25	17755	16.90	21740	13.80
7260	41.32	11920	25.17	17790	16.86	25650	11.70
9560	31.38	11930	25.15	17870	16.79	25850	11.61
9625	31.17	11955	25.09	17890	16.77		
9690	30.96	15300	19.61	21485	13.96		
9725	30.85	15310	19.60	21640	13.86		

Relays of General Overseas Sce. (see page 74)	H. of tr.	m.b. All the year round
No. and Ea. China, Hongkong, }	09.15–11.30	25, 19, 16
Korea, Japan: }	11.30–13.45	19
So. China, Vietnam, Laos,, Cambodia:	09.15–11.30	31, 25, 19, 16
	11.30–13.00	19
	13.00–13.45	31, 19
	13.45–16.50*	31, 25
Indonesia:	09.15–10.30	41, 31, 25
	11.00–11.30	41, 31, 25
Burma, Thailand:	13.00–13.45	31
	13.45–16.50*	31, 25
India, Pakistan, Ceylon:	13.00–13.45	25
	13.45–16.00	19
	16.00–16.50*	25, 19
Australia:	13.00–13.15	31, 16

*Oct.-March closes 16.35 Mo.-Fri., 17.20 Sat.

Relays of Asian Service: (see below)

	Language:		
Japan:	Japanese	09.00–09.15	25, 19
		11.00–11.30	25
China, Vietnam, Laos, Cambodia: }	Kuoyu	12.00–12.30	31, 25, 19
}	Cantonese	12.30–12.45	31, 25, 19
Vietnam, Laos, Cambodia: }	Vietnamese	11.30–12.00	41, 31, 25
Indonesia:	Indonesian	10.30–11.00	41, 31, 25
Burma, Thailand:	Burmese	13.00–13.15	31, 25
	Thai	13.15–13.45	41, 31, 25
India, Pakistan, Ceylon:	South Asian Reg. Langua.*	13.45–14.15	25
	Urdu	14.15–15.00	25
	Hindi	15.00–15.45	25

*Sinhalese: Tues., Fri. – Tamil: Sun., Thurs. – Bengali: Mo., Wed., Sat.

EAST MEDITERRANEAN RELAY

Relays of the BBC Arabic Service and General Overseas Service (see pages 74, 75).

	kc/s
No. Egypt/Israel/Jordan/Lebanon/Syria:	638, 719
Iraq/Persian Gulf:	6790, 11720
Israel/Jordan/Arabia:	6120
Lybia/Syria:	6170
Sudan/Egypt:	9650

03.30–03.45**, 03.45–05.45*, 05.45–08.00**, 11.00–21.00*.
*Arabic. **General Overseas Service.

VOICE OF AMERICA RELAYS IN GREAT BRITAIN BY THE BBC

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
DAILY PRGR.: Blue Stars Network: 14.00–22.00.

14.00–14.30	Georgian	18.00–18.30	Russian
14.30–15.00	Armenian	18.30–19.00	Estonian
15.00–15.30	Russian	19.00–19.30	Russian
15.30–16.00	Ukrainian	19.30–20.00	Polish
16.00–16.30	Russian	20.00–20.30	Russian
16.30–17.00	Lithuanian	20.30–21.00	Czech
17.00–17.30	Russian	21.00–21.30	Russian
17.30–18.00	Latvian	21.30–22.00	Polish

Grey Stars Network: 16.30–22.00.

16.30–17.00	Bulgarian	20.00–20.30	Albanian
17.30–18.00	Rumanian	20.30–21.00	Rumanian
18.30–19.00	Hungarian	21.00–21.15	Serbo-Croat
19.00–19.30	Serbo-Croat	21.15–22.00	Hungarian
19.30–20.00	Bulgarian		

ANN.: The BBC announces its relay of the Voice of America prgr. stating the language and relay frequencies. V. by QSL-card.

★ GREECE ★

L.T.: GMT+2 h. – Pr.L.: Greek. – Po.: 8.000.000. – Rcvrs.: 736.000. – E.C.: 220 V, A.C., 50 c/s.

NATIONAL HELLENIC BROADCASTING INSTITUTE

(Ethnikon Idhryma Radhiophonias Go. – Statutory Body of Public Law)
ADDR.: 4-Righillis St., Athens (K). Studios: Zappeion Bldg., Athens (K). – Cable: RadiostAthens. – L.P.: Pres. of the Adm. Council: G. Sophronopoulos. Dir. Gen.: P. Spyromilios. Dep. Dir. Gen. & Dir. Adm.: A. Margaritis. Dir. Tec.: V. Aslanides. Dir. Financial Sce.: N. Pagoulatos.

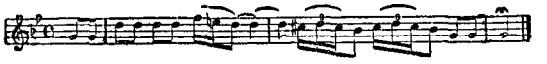
HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Athens (Nat.)	728	412.1	150	Comotini*	1403	213.8	5
Athens (2' Prgr.)	1385	217.0	50	Volos*	1484	202.2	0.2
Athens (3' Prgr.)	665	451.2	15	Rhodos*	1493	201.0	5
Corfu*	1007	298.0	50	Patras*	1511	198.5	0.2
Thessaloniki*	1043	287.6	2	Chania*	1511	198.5	5

* Nat & Reg.

NAT. PRGR.: Wi.: W.: 05.00–08.35, 10.30–22.05. Sun. 05.00–22.05. Su.: W.: 04.30–08.35, 10.30–13.35, 15.00–23.00. Sun.: 04.30–23.00.

N.: Wi.: 05.30, 05.40 (English), 07.00 (W), 11.00, 11.10 (W. French), 12.30 (W), 18.00 (incl. Newsreel), 20.15, 22.00. Su.: 05.15, 05.25 (English), 07.00 (W), 11.00, 11.10 (W. French), 12.30 (W), 18.00 (incl. Newsreel), 20.15, 22.00. – **Wrp.:** W.: 08.30, 13.30 (Su. 13.15). – **Nat. Music:** W.: 05.30 (Su. 05.45)–07.00, 18.00–18.30. – **Religious** (Orthodox): Sun.: 05.45–08.00.
2' PRGR.: Wi: 05.30–13.15, 15.00–21.30 (Sun.: 05.30–21.30). Su.: 05.15–07.00, 08.00–21.30 (Sun.: 05.15–21.30). (Light Prgr. only).
3' PRGR.: D.: 17.00–22.00. (Serious musical prgr.s only).
NAT. PRGR. & REG.: D. Morning, Midday, and Evening Prgr. (Reg. and Rel. National Prgr. 728 kc/s). **Approx. h. of. tr.:** As Nat. Prgr.
ANN.: Nat Prgr.: "Ethnikon Proghramma." **2' Prgr.:** "Dhéfteron Proghramma" – **3' Prgr.:** "Triton Proghramma" – **Reg. Prgr.:** "Edho' ...(Athinai, Kérkyra, Thessaloniki, Patras etc.)". (This is ...(Athens, Corfu, Salonika, Patras etc.).
STATION-SIG.: Used by all m.w. stations of NBI: "Tsopanakos imouna" (I used to be a shepherd boy), a folk song played on native flute and sheep bells.



INT.-SIG.: "Musical Box", played on vibraphon.

FOREIGN SERVICE: Athens – 7.5/5 kW.

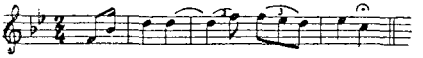
5960 kc/s	50.34 m	7295 kc/s	41.12 m	15345 kc/s	19.55 m
6075 –	49.38 –	9607 –	31.23 –	15423 –	19.45 –
6177 –	48.56 –	11718 –	25.60 –	17778 –	16.87 –
7142 –	42.01 –	11927 –	25.16 –	21485 –	13.96 –
				21565 –	*13.91* –

D. PRGR.:	**Target area**	**kc/s**	**Language**
W. 07.00–08.15 } Sun. 05.45–08.15[2]) }	Cyprus	9607 / 15345	Greek[1])
D. 09.00–10.00 exc. Mo.	Egypt	15345	Greek
D. 10.30–13.00	Cyprus	9607	Greek
D. 11.00–13.15	No. East & S.Eu.	6075	Greek[3])
Wi. 13.15–15.00	No. East & S.Eu.	6075	Greek[4])
D. 13.30–15.15	Balkans	11718	[5])
D. 15.30–15.45	USSR	17778	Russian
D. 16.00–17.00	Cyprus	9607 / 11718	Greek[6])
D. 17.15–17.45	No. We.Eu.	15345 / 17778	French & English
D. 18.15–18.45	Cyprus	9607 / 11718	Greek
D. 19.00–20.00	No. We.Eu.	11718 / 15345	Greek
D. 22.00–22.30 D. 23.00–23.30	Mediterr.[7]) Mediterr.[8])	9607 / 11718	Greek

[1]) N. at 07.00 – [2]) Sun. Sce. (Orthodox) – [3]) Rel. Nat. Prgr. – [4]) Rel. 2' Prgr. – [5]) 13.30–14.00 in Greek, 14.00–15.15 N. and Commentary in Turkish, Yugoslav, Rumanian, Bulgarian & Albanian – [6]) 16.00–16.20 N. at dictation speed. – [7]) N., Messages to Shipping. – [8]) Rep. of 22.00–22.30. Other prgrs. consist of Nat. music, talks and features.
ANN.: Gr.: "Edho Radhiophonikós Statmós Athinón Vrachèon Kymàtón" – E.: "This is Radio Athens the Voice of Greece" – F.: "Ici Radio Athènes la Voix de la Grèce".
STATION SIG.: See Home Sce. – V. by QSL-card or letter.
PUB.: "Radhioproghramma" (weekly in Greek). No prgr. sched. free.

FORCES BROADCASTING STATIONS (Greek)

ATHENS (Central)
ADDR.: Radhiostathmos Enoplon Dhynameon Athinon, 136-Messoghion St., Athens: T. 6.
STATIONS: 1300 kc/s 230.7 m 1 kW – 6135 kc/s 48.90 m 1 kW.
D. PRGR.: W.: 05.00–07.30, 10.00–13.30, 15.00–22.00. Sun.: 05.00–22.00. N.: 12.00, 19.00.
ANN.: "Edho Athine, Kendrikos Radhiophonikos Stathmos Enoplon Dhynameon Elladhos" (This is Athens, the Central Radio Station of the Greek Armed Forces).
STATION SIG.: The main motif from the march "Greece never dies", played on trumpets.



	kc/s	m	kW	H. of Tr.
Florina	7284	41.18	0.5	05.00–07.00, 10.00–13.00, 15.30–20.00
Jannina	7094	42.28	0.3	05.00–07.00, 09.30–12.30, 15.30–21.00
Kavalla	7214	41.58	0.5	05.00–08.00, 10.00–13.00, 15.30–21.00
Kozani	7950	37.70	0.5	05.00–07.00, 10.00–13.00, 16.00–20.30
Larissa	6752	44.43	0.5	05.00–07.00, 10.00–13.00, 16.00–21.00
Salonica	1169	256.6	1	05.00–07.00, 10.00–13.00, 15.00–21.30
Tripolis	6003	49.97	0.5	05.00–07.00, 09.30–12.30, 15.30–21.00

AMERICAN FORCES RADIO SERVICE (A.F.R.S.)

Athens	1590 kc/s	188.7 m	0.5	kW	04.00–04.00 continuously. N.: 07.00, 10.00, 16.00, 20.00.
Heraklion	6480 –	46.30 –	0.06	–	04.00–22.00.

PRIVATE BROADCASTING STATIONS

Amalias	1385 kc/s	216.6 m	1.25	kW	16.30–21.30
Chios	6590 –	45.52 –	0.1	–	17.00–20.30
Karpenission	6525 –	45.98 –	0.3	–	17.00–21.00
Megara	1186 –	253.0 –	0.06	–	05.30–07.00, 10.30–12.30
Mytilini	6240 –	48.07 –	0.1	–	17.00–20.30
Sparta	1236 –	242.7 –	0.05	–	17.30–21.00

VOICE OF AMERICA RADIO STATION IN GREECE

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Salonika-A 791 kc/s 379.2 m 50 kW: 10.00–13.30, 15.30–23.00.
S.W.: Salonika 35 kW: 14.00–23.00.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6155	48.74	9520	31.51	11805	25.41	15330	19.57
7260	41.32	9585	31.30	15285	19.63	17800	16.85

DAILY PRGR.: Medium Wave:

08.15–10.00	Greek (R. Salonika)	19.00–19.30	Serbo-Croat
	Sunday only	19.30–20.00	Bulgarian
10.00–13.30	Greek (R. Salonika)	20.00–20.30	Albanian
15.30–17.00	Greek (R. Salonika)	20.30–21.00	Rumanian
17.00–17.15	Music	21.00–21.15	Greek
17.15–17.30	Greek	21.15–22.15	Greek (R. Salonika)
17.30–18.00	Rumanian	22.15–22.30	Serbo-Croat
18.00–18.30	Bulgarian	22.30–23.00	Hungarian
18.30–19.00	Hungarian		

Short Wave: See U.S.A.
ANN.: "This is the Voice of America Transmitter, Salonika". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

VOICE OF AMERICA SEABORNE RADIO STATION DODECANESE ISLANDS

Seaborne Radio Station aboard U.S.C.G.C. "COURIER", currently located at the Island of Rhodes.
ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
M.W.: Courier-A 1259 kc/s 238.3 m 150 kW: 04.00–06.30, 16.00–22.30.
S.W.: Courier 35 kW: 04.00–06.30, 14.00–22.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
7125	42.11	9530	31.48	11760	25.51	15270	19.65
7205	41.64						

DAILY PRGR.:

04.00–06.00 Arabic	14.30–15.00 Armenian	16.30–17.00 Turkish
06.00–06.30 **English**	15.00–15.30 **English**	17.00–21.00 Arabic
14.00–14.30 **English**	16.00–16.30 Persian	21.00–22.30 **English**

ANN.: "This is the Voice of America Transmitter at Rhodes". – **INT.-SIG.:** Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – V. by QSL-card. No return postage required.

★ GREENLAND (Danish Territory) ★

(See No. America).

★ HOLLAND ★

L.T.: GMT + 1 h. – **Pr. L.:** Dutch. – **Po.:** 11.250.000. – **Rcvrs.:** 3.055.000. – **E.C.:** 220/380, A.C., 50 c/s.

HOME SERVICE

ADDR.: Stichting Nederlandsche Radio Unie, The Dutch Radio Union, P.O. Box 150, Hilversum. – **Cable:** Radiounie.
The Dutch programmes for home are provided by the following broadcasting societies:
A.V.R.O.: Algemeene Vereeniging Radio-Omroep, Headoffice Amsterdam, *Keizersgracht 107, Studios: Hilversum, 's-Gravelandseweg* 52. – **L.P.:** Chairman: Jhr. Th. Röell. Secr.: H. A. Wassenbergh LL.D. Treasurer: E. A. Timmer. Man. Dir.: D. Repko.
K.R.O.: Katholieke Radio-Omroep. Emmastraat 52, Hilversum. – **L.P.:** Chairman: E. H. J. van Waesberge O.P. Secr.: Dr. Ir. L. J. N. van der Hulst. Treasurer: C. Burger. Man. Dir.: Drs. A. J. J. v. d. Made.
N.C.R.V.: Nederlandsche Christelijke Radio Vereeniging, Schuttersweg 8, Hilversum. – **L.P.:** Chairman: A. B. Roosjen LL.D. Secr.: C. A. Keuning. Man. Dir.: A. H. v. d. Veen LL.D.
V.A.R.A.: Vereeniging van Arbeiders Radio-Amateurs, Heuvellaan 33, Hilversum. – **L.P.:** Chairman: J. A. W. Burger LL.D. Secr.-Treas.: J. W. Lebon. Prgr. Secr.: J. B. Broeksz. Secr.: J. W. Rengelink.
V.P.R.O.: Vrijzinnig Protestantse Radio-Omroep, 's-Gravelandseweg 65, Hilversum. – **L.P.:** Chairman: Dr. J. A. de Koning. Secr.: Dr. E. D. Spelberg. Treasurer: Ir. K. Kooy.
Central Address for Prgr. Publications: Centraal Bureau voor den Omroep in Nederland, Hilversum, P.O. Box 52.

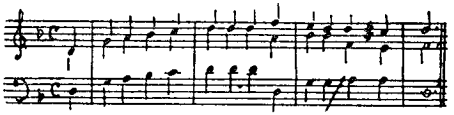
BOARD OF THE NEDERLANDSCHE RADIO-UNIE: Chairman: A. B. Roosjen LL.D. Secr.: J. W. Lebon. Treasurer: Jhr. Th. Röell. Members: Dr. J. A. de Koning, J. B. Broeksz, Drs. A. J. J. v. d. Made, D. Repko, E. H. J. van Waesberge A.R., A. H. v. d. Veen LL.D.

STATIONS:
Hilversum I: 746 kc/s 402.1 m 120 kW – II: 1007 kc/s 297.9 m 120 kW. Rel.: Hengelo, Hoogezand, Hulsberg: 1594 kc/s 188.2 m 5 kW.
FM: Hoogezand: 91.8, 94.9 mc/s 15 kW – Hulsberg: 95.1, 97.5 mc/s 5 kW – Irnsum: 88.2, 96.0 mc/s 5 kW – Mierlo: 93.5, 99.9 mc/s 15 kW – Markelo: 97.2, 98.3 mc/s 50 kW.

D. PRGR.: Hilversum I & II: W. 06.00–23.00. Sun. 07.00–23.00.

N.: 1st and 3rd quarter: Hilversum I: D.: 06.00(W), 07.00, 12.00, 17.00(W), 18.45(Sun.), 21.30, 22.55. – Hilversum II: D.: 06.00(W), 07.00, 12.00, 16.50(Sun.), 18.00(W), 21.30, 22.55.
2nd and 4th quarter: Hilversum I as Hilversum LL – Hilversum II as Hilversum I..

INT.-SIG.: A tune from "Valerius Gedenckklank": "O Nederland let op u saeck, de tyt en stont is daer".



RADIO NEDERLAND WERELDOMROEP (non-comm.)

ADDR.: Radio Nederland, P.O. Box 222, Hilversum. Main-Office: 's-Gravelandseweg 76, Hilversum. – **Cable:** "Mundivox".

L.P.: Deputy Dir. Gen.: C. J. Strop. Directors: Central Prgr. Sce.: J. W. Acda. N. Sce.: Dr. M. P. Bajetto. Dutch Sce.: F. Thors. International Sce.: H. J. P. J. van Eijndhoven. Transcription Sce.: Lod. Prins. Dir. Tec.: V. J. de Grijs. Producer "Happy Station" prgr.: Edw. Startz.

STATIONS: Lopik WO1 50 kW; WO2, 3, 4 100 kW; WO5 10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
26040	11.51	21480	13.96	15445	19.43	11935	25.14	9715	30.88
25610	11.71	17840	16.82	15425	19.45	11915	25.18	9590	31.28
21715	13.82	17810	16.84	15365	19.52	11730	25.58	6025	49.79
21665	13.84	17800	16.85	15220	19.71	9745	30.78	6020	49.83
21565	13.91	17775	16.88	11950	25.10	9730	30.83		

OPERATION SCHEDULE: Spec. abbrev.: N. An.=Netherlands Antilles. N. G.=Netherlands New Guinea. Ind.=Indonesia. Su.=Netherlands Guiana (Surinam).

Wavelengths between brackets are possible substitutes.

Languages, h. of tr.	Areas served	1. Per.* m.b.	2. Per.** m.b.
Afrikaans:			
W. 15.00–15.50	So.Af.	13, 16	13, 16
Arabic:			
W. 16.30–17.20	M.E., No.Af.	13, 16, 19	13, 16, 19
Dutch:			
D. 01.30–03.20[1]	No.Am.	25, 31	25, 31 (19)
D. 06.00–06.20	N.Z.	19, 25	19, 25
D. 07.30–07.50	Au.	19, 25	19, 25
W. 10.00–10.20	Su.	11, 13	13, 16
W. 10.30–10.50	N.An.	13, 16	13, 16
D. 11.00–12.50	N.G., Au., N.Z.	11, 13 (16)	13, 16
D. 13.00–15.05[2]	So.As., Ind.	13, 16 (19)	13, 16
D. 18.00–19.50[3]	Af., Eu.	16, 19, 25, 49	16, 19, 25, 49
20.30–20.50[4]	N.G.	19, 25	16, 19
22.30–22.50[4]	Ind.	19, 25 (31)	19, 25
D. 23.00–01.20	C.Am., So.Am.	19, 25	16, 19
Sun. 08.30–10.20[5]	Af., So.As., Au.	11, 13	11, 13
Sun. 21.00–22.20[5]	No.Am., Eu.	19, 25	16, 19
English:			
01.30–02.20[6]	No.Am., N.Z.	31, 49	31, 49 (25)
W. 09.00–09.50	N.Z., Au., So.As.	11, 13 (16)	13, 16
W. 14.00–14.50	Af., In.	13, 16	13, 16 (11)
W. 21.15–22.05	Eu., No.Am.	19, 25, 49	16, 19, 49 (25)
Indonesian:			
D. 12.30–13.30	Ind.	13, 16	13, 16
Spanish:			
00.00–00.50[6]	So.Am.	19, 25	16, 19
03.00–03.50[6]	C.Am.	31, 49	31, 49 (25)
W. 20.15–21.05	Sp., No.Af.	31, 49	31, 49

RADIO NEDERLAND

HILVERSUM - HOLLAND

daily broadcasts in

AFRIKAANS
ARABIC
DUTCH
ENGLISH
INDONESIAN
SPANISH

news, commentaries, actualities, feature-programmes, music – 100 K/W transmitters – 11, 13, 16, 19, 25, 31, 49 metre bands – programme bulletins free on application.

Radio stations the world over are invited to apply to our

TRANSCRIPTION SERVICE for free recordings of

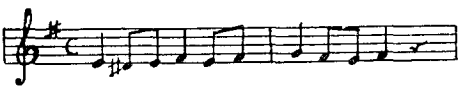
- serious and light music
- entertainment-programmes
- feature-spots, coverages
- topical talks, interviews

ALL TRANSCRIPTION PROGRAMMES are adapted to suit the requirements of the areas served.

Happy Station:		m. b.	m. b.
Sun. 10.30–12.00	As.,Au.,N.Z.,Eu.	13, 30, 49	13, 30, 49
Sun. 16.00–17.30	Af.,Ea.As.,Eu.	13, 16, 19, 49	11, 13, 16, 49
Sun. 21.00–22.30	So.Am., Sp.	19, 25, 49	16, 19, 49
Mo. 02.00–03.00	No.Am., N.Z.	31, 49	31, 49 (25)

[1] Mo. 03.40. [2] Sun. 15.50. [3] Sun. 20.10. [4] D. exc. Sat. [5] Religious Prgr. [6] D. exc. Mo. * Nov./Apr. ** May/Oct.

PROGRAMME SCHEDULE:
NATIONAL MUSIC:
The Amsterdam Concertgebouw Orchestra: Thurs.: 11.25–12.15, 13.25–14.15, 18.25–19.15, 23.25–00.15; Fri. 01.55–02.45 in **Dutch, English, Spanish**; Sun. 12.40–13.10 in **Indonesian**. – **The Netherlands Composers:** Tues. between 15.11–15.30 in **Afrikaans**; prgr's in **Arabic** on Dutch music are broadcast occas. 1st Mo./Tues. of each month: 06.42–07.02, 09.12–09.32, 14.12–14.32, 21.27–21.47, 01.42–02.02 in **English**; 20.27–20.47, 00.12–00.32, 03.12–03.32 in **Spanish.**
N., COMM.: Afrikaans: 15.01(W). **Arabic:** 16.32(W). **Dutch:** 06.00(D), 07.30(D), 10.00(W), 10.30(W), 11.00(D). 13.00(D), 14.40(W), 15.00(Sun.), 18.00(D), 20.30(D. exc. Sat.), 22.30(D. exc. Sat.), 23.00(D), 01.30(D). **English:** 01.30(D. exc. Mo.), 06.30(W), 09.00(W), 14.00(W), 21.15(W). **Indonesian:** 12.32(D). **Spanish:** 20.15(W), 00.00(D. exc. Mo.), 03.00(D. exc. Mo.).
LISTENERS' REQUEST PRGR.: Afrikaans: Sa. 15.11. **Arabic:** Wed. 16.40, Sat. 16.55. **Dutch:** Fri.: 11.30, 13.30, 18.30. Sat. 00.00, 02.00. **English:** Thurs.: 06.42, 09.12, 14.12, 21.27. Fri. 01.42. **Indonesian:** Sa. 12.50. **Spanish:** Thurs. 20.27. Fri.: 00.12, 03.12.
MAILBAG: Afrikaans: Sat. 15.11. **Arabic:** Wed. 16.40. Sat. 16.55. **Dutch:** Fri. (fortnightly): 12.00, 14.00, 19.00. Sat. (fortnightly): 00.30, 02.30. **English:** Tues. (fortnightly): 07.02, 09.32, 14.32, 21.47. Wed. (fortnightly) 02.02. **Indonesian:** Sun. 13.10. **Spanish:** Tues. (fortnightly) 20.48. Wed. (fortnightly): 00.33, 03.33.
DX-PROGRAMMES: English: Mo.: 07.13, 09.43, 14.43, 21.58. Tues. 02.13.
PRODUCTION "HAPPY STATION": The 4 "Happy Station" Sun. prgrs., 3 in **English** and 1 in **Spanish** and **Portuguese**, bring a wide range of carefully selected music catering for all tastes. Short features of universal interest, descriptive commentaries and educational quizzes supplement the 90 min. programmes. In addition each transmission carries an international "mailbag" with calls to all parts of the globe. 1960 is the 32nd year of the "Happy Station"s worldwide broadcasting. The "Happy Station" prgr. **EVERY SUNDAY:** (for m.b. see operating sched.).
10.30–12.00 F.E., An., N.Z., Eu. 21.00–22.30 So.Am., Sp.
16.00–17.30 Ea.As., Af., Eu. Mo. 02.00–03.30 No.Am., Ca., N.Z.
ANN.: Dutch: "Hier Radio Nederland in Hilversum". **E.:** "This is the International Service of Radio Nederland in Hilversum, Holland". **Ind.:** "Disini Hilversum Siaran Indonesia Radio Nederland". – **Sp.:** "Aqui Radio Nederland de Hilversum, Holanda". – **Arabic:** "Huna Hilversum – al idha'atu'l hulandiya bi'l-lughati'l-Arabiya".
GENERAL INT.-SIG.: Old Dutch folk song called: "Merk toch hoe sterck" played on carillon or celesta on all frequencies.



V. by QSL-card. – **PUB.:** Prgr. bulletin in Dutch, English, Spanish, Arabic, Afrikaans. – A pamphlet on improving s.w. reception in Dutch, English, Spanish, Indonesian. Also a diagram for building a s.w. converter in Dutch, English. All the pub. are sent free of charge on application.
TRANSCRIPTION SERVICE. A free sce. to foreign sts. Issues complete prgrs. about Holland and Dutch life both informative and musical, and adapted to suit the requirements of the areas served.

★ HUNGARY ★

L.T.: GMT+1 h. – **Pr. L.:** Hungarian. – **Po.:** 9.500.000. – **Rcvrs.:** 2.100.000. – **E.C.:** 110/220 V, A.C., 50 c/s.

MAGYAR RADIO ES TELEVIZIO (Co.)
ADDR.: Brody Sandor-S. u. 5–7, Budapest VIII. – **Cable:** Magyarrádió. – **L.P.:** Pres. & Gen. Mgr.: L. Gács. Vice-Pres. & Dir. Prgr.: Dr. K. Kiss. Dir. Adm.: G. Mike. Dir. Tec.: L. Hermann. Dir. Foreign Rel.: Mrs. M. Solymár.

HOME SERVICE

	kc/s	m	kw		H. of tr.
Kossuth, Budapest	539	556.5	135		W. 03.30–23.20. Sun. 05.00–23.30
Petöfi II, Budapest	872	344.0	20/50	–	D. 05.00–07.10,
Petöfi I, Szolnok	1187	252.7	135	–	12.50–22.00
Balatonszabadi	1250	240.0	135	–	
Nyeiregyháza	1340	223.8	25	–	D. 17.00–18.00
Györ	1340	223.8	0.4	–	W. 17.00–18.00.
Szombathely	1340	223.8	25	–	Sun. 08.00–09.00
Pécs	1340	223.8	15	–	D. 15.30–18.00
Szolnok	1340	223.8	0.4	–	D. 16.00–17.00
Miskolc	1594	189.0	15	–	D. 17.00–18.00
Magyaróvár	1594	189.0	0.4	–	W. 17.00–18.00, Sun. 08.00–09.00

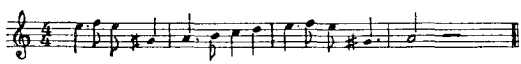
R. Kossuth: N., Wrp.: W.: 03.30, 09.00, 11.00, 15.00, 17.00, 19.00, 21.00, 23.00. Sun.: 07.00, 11.00, 16.00, 19.00, 21.00, 23.00.
R. Petöfi: N.: W.: 07.00, 13.00, 18.00, 20.00. – **Mbg.: R. Kossuth:** Mo. 12.00. Tues. 09.10. Wed. 14.45. **R. Petöfi:** Thurs. 18.15. **FM:** 89.2 mc/s 3 kW: D. 17.00–21.00. Mo.–Fri. also 13.00–15.00.
ANN.: "Rádió Kossuth, Budapest". – "Rádió Petöfi, Budapest".

FOREIGN SERVICE

STATIONS: 100 kW
1250 kc/s 240.0 m – 6195 kc/s 48.43 m – 7220 kc/s 41.45 m
9833 kc/s 3051 m – 11910 kc/s 25.19 m – 15160 kc/s 19.79 m
21650 kc/s 13.76 m

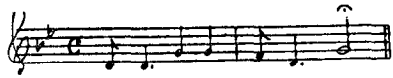
Language	Time	1/12 59–1/3 60 kc/s	1/3 60–15/4 60 kc/s
English:	19.30–20.00	9833, 7220	11910, 9833
	20.00–22.00	9833, 6195	11910, 7220
English/ USA:	*00.00–01.00*	*11910*, 9833, 7220	*11910*, 9833
	03.00–04.30	9833, 7220	11910, 9833, 7220
French:	18.00–18.30	9833, 7220	11910, 9833
	19.30–20.00	6195, 1250	7220, 1250
Sun.	13.30–14.00	15160, 11910	11910, 15160
German:	18.00–18.30	6195, 1250	7220, 1250
	20.00–20.30	1250	1250
Greek:	17.00–17.30	9833, 7220, 6195, 1250	11910, 9833
	20.00–20.30	7220, 6195	11910, 7220
Sat.	15.00–15.30	15160, 11910	15160, 11910
Sun.	12.00–13.00	15160, 11910	15160, 11910
Hungarian:			
Europe	19.00–19.30	9833, 7220, 6195, 1250	11910, 9833, 7220, 1250
	21.00–22.00	7220, 1250	9833, 1250
N.Am.	01.00–01.30	11910, 9833, 7220	11910, 9833
	02.00–03.00	9833, 7220	11910, 9833, 7220
	04.30–05.00	9833, 7220	11910, 9833, 7220
So.Am.	23.30–24.00	11910, 9833	11910, 9833
Sun.	14.00–16.00	15160, 11910	15160, 11910
Italian:	17.30–18.00	7220, 6195, 1250	9833, 7220, 1250
	20.30–21.00	7220, 6195, 1250	7220, 1250
Spanish:			
Europe	20.00–21.00	9833	9833
	22.00–22.30	9833	*11910*, 9833
So.Am.	22.30–23.30	11910, 9833	11910, 9833
C.Am.	01.30–02.00	11910, 9833, 7220	11910, 9833, 7220
Turkish:	16.30–17.00	9833, 7220, 1250	11910, 9833, 1250
	18.30–19.00	9833, 7220	11910, 9833
Sat.	14.30–15.00	15160, 11910	15160, 11910
Sun.	10.30–12.00	15160, 11910	15160, 11910

Experimental broadcasts to Au/NZ 06.00–07.30 on 21650 kc/s.
ANN.: E.: "This is Budapest, Hungary". **F.:** "Ici Budapest".



R. Petöfi:

Foreign Service: Old Hungarian Folksong "From the Tisza, past the Danube":



V. by QSL-card and letter. – **PUB.:** "Rádió és Televizió Ujság" (weekly).

★ ICELAND ★

L.T.: GMT÷1 h. (Su.=GMT). – **Pr.L.:** Icelandic. – **Po.:** 161.000. – **Rcvrs.:** 45.000. – **E.C.:** 220 V., A.C., 50 c/s.

ICELAND STATE BROADCAST SERVICE – RIKISUTVARPID (Co.)
ADDR.: P.O. Box 120, Reykjavik. – **Cable:** Utvarp.
L.P.: Dir. Gen.: V. Th. Gislason. Chairman of Progr. Council: B. Groendal. Dir. Adm.: S. Thórdarson. Dir. Prgr.: A. Björnsson. Dir.

Music: P. Isólfsson. Dir. Drama: Th. Ø. Stephensen. Dir. News Sce.: J. Magnusson. Dir. Tec.: St. Bjarnason.

HOME SERVICE:

09.00–11.00, 13.00–15.00, 16.00–17.30, 19.00–01.00.

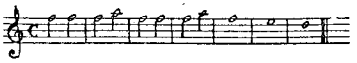
Reykjavik TFU	182 kc/s	1648	m	100 kW	}	N.: 09.30, 13.25, 16.55, 21.00, 23.00
Eidar	611 –	491	–	5 – [1]		
Höfn	665 –	451.2	–	1 – [1]		
Akureyri	737 –	407.1	–	5 – [1]		
Nordfjördur	1484 –	202.2	–	0.03 – [1]		

FM: Reykjavik 94 mc/s 0.6 kW[1], 97 mc/s 0.3 kW[1]. [1] Rel. TFU

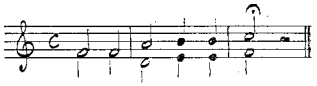
FOREIGN SERVICE in Icelandic:

Reykjavik TFJ 12175 kc/s 24.64 m 7 kW: D. 21.00–22.00. Sun. also 13.15–14.15 to Eu.

ANN.: "Utvarp Reykjavik". – **INT.-SIG.:** Home Sce.:



Foreign Sce.:



V. by QSL-card. R.p.

ARMED FORCES RADIO TELEVISION SCE: See USA.

★ IRELAND ★

L.T.: GMT (Su. GMT+1 h.). – **Pr.L.:** Irish, English. – **Po.:** 2.898.264. **Rcvrs.:** 491.408. – **E.C.:** 200/220 V., A.C., 50 c/s.

RADIO EIREANN (Go.)

ADDR.: Gen. Post Office, Dublin. – **Cable:** Radioeireann.

L.P.: Chairman R. Eireann Council: C. J. Brennan. Dir. Broadc.: M. Gorham. Controller of Prgr.: R. Farren. Adm.: M. Doherty. Chief Eng.: J. O'Keeffe.

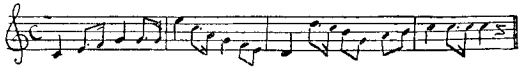
HOME SCE.: W.: 07.55–09.15, 13.00–15.00, 17.00–23.30. Sun.: 10.25–11.15, 12.30–23.30.

Athlone 566 kc/s 530 m 100 kW – Dublin 1250 kc/s 240 m 5 kW
Cork 1250 kc/s 240 m 5 kW

N., Wrp.: English: 07.55(W), 09.00(W), 13.30, 18.30, 22.15. – **Irish:** 18.00, 22.00(W).

Wrp.: Sun. 10.25. – **Irish Music:** Sat. & Sun. 22.30–23.00. – **Request:** (Hospitals) Wed.: 13.00–13.30, 13.45–14.30.

ANN.: "Radio Eireann". – **INT.-SIG.:** Celeste and Harp playing 4 bars of Irish Air "O Donnell Abu". – **V.** by letter.



★ ITALY ★

L.T.: GMT+1 h. – **Pr.L.:** Italian. – **Po.:** 51.000.000. – **Rcvrs.:** 7.467.663. – **E.C.:** 125/220 V., A.C., 50 c/s.

RAI – RADIOTELEVISIONE ITALIANA

(State Service granted by public act to RAI).

ADDR.: Via del Babuino 9, Roma. – **Cable:** "Raidirro".

L.P.: Pres.: Prof. Antonio Carrelli. Vice Pres.: Hon. Luigi Bennani. Man. Dir.: Ing. Marcello Rodino. Dir. Gen.: Dr. Rodolfo Arata. Vice Dir. Gen.: Dr. Marcello Bernardi. Gen. Secretary (Dir. Foreign Rel.): Dr. Gian Franco Zaffrani. Dir. Adm.: Dr. Bruno Vasari. Dir. Prgr. (Radio): Maestro Giulio Razzi. Dir. Prgr. (TV): Dr. Sergio Pugliese. Dir. Radio News: Dr. Antonio Piccone Stella. Tec. Dir. (Radio): Eng. Gino Castelnuovo. Dir. Tec. (TV): Eng. Sergio Bertolotti. Co-Dir. Gen. Aff.: Dr. Luigi Beretta, Dr. Pio Casali. Chief Pers.: Dr. Pier Antonio Milone. Directors "Radiocorriere": Eng. Vittorio Malinverni, Dr. Eugenio Bertuetti.

HOME SCE.: No powers indicated owing to pending changes.

M. Wave	Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s		Nat. prgr. kc/s	2 prgr. kc/s	3 prgr. kc/s
Aosta 1)		1115		Brunico 3)		1484	1594
Alessandria 1)		1448		Merano 3)		1484	1594
Biella 1)		1448		Trento 3)	1331	1448	1367
Cuneo 1)		1448		Belluno 4)		1448	
Torino 1)	656	1448	1367	Cortina 4)		1448	
Como 2)		1448		Venezia 4)	656	1034	1367
Milano 2)	899	1034	1367	Verona 4)	1578	1448	1367
Sondrio 2)		1448		Vicenza 4)		1484	
Bolzano 3)	656	1484	1594	Gorizia 5)		1484	
Bressanone 3)		1484	1594	Trieste 5)	818	1115	1594
Udine 5)	1331	1448		Teramo 12)		1448	
Trieste A 5) (autonoma in sloveno)	980			Avellino 13)		1484	
				Benevento 13)		1448	
Genova 6)	1331	1034	1367	Napoli 13)	656	1034	1367
La Spezia 6)	1578			Salerno 13)		1448	
Savona 6)		1484		Bari 14)	1331	1115	1367
S. Remo 6)		1034		Brindisi 14)	1578		
Bologna 7)	1331	1115	1367	Foggia 14)	1578	1448	
Arezzo 8)		1484		Lecce 14)	1578	1448	
Carrara 8)	1578			Taranto 14)	1578	1448	
Firenze 8)	656	1448	1367	Potenza 15)	1578	1448	
Livorno 8)	1578		1367	Catanzaro 16)	1578	1448	
Pisa 8)		1115	1594	Cosenza 16)	1578	1484	
Siena 8)		1448		Reggio C 16)	1331		
Perugia 9)	1578	1448		Agrigento 17)		1448	
Terni 9)	1578	1484		Catania 17)	1331	1448	1367
Ancona 10)	1578	1448		Caltanissetta 17)	566	1448	
Ascoli P. 10)		1448		Messina 17)		1115	1367
Roma 11)	1331	845	1367	Palermo 17)	1331	1448	1367
Aquila 12)	1578	1484		Cagliari 18)	1061	1448	
Campobasso 12)		1448		Nuoro 18)	1578	1484	
Pescara 12)	1331	1034		Sassari 18)	1578	1448	

FM: 192 st. (Nat. prgr.), 192 st. (prgr. 2), 192 st. (prgr. 3).

1) Piemonte. 2) Lombardia. 3) Trentino Alto Adige. 4) Veneto. 5) Venezia, Giulia, Friuli. 6) Liguria. 7) Emilia, Romagna. 8) Toscana. 9) Umbria. 10) Marche. 11) Lazio. 12) Abruzzi, Molise. 13) Campania. 14) Puglia. 15) Bacilicata. 16) Calabria. 17) Sicilia. 18) Sardegna.

Short Waves:

Nat. Prgr.	Caltanissetta	6060 kc/s 49.50 m	9515 kc/s 31.55 m
2. Prgr.	Caltanissetta	7175 kc/s 41.81 m	
3. Prgr.	Roma	3995 kc/s 75.09 m	

National Prgr.: D. 05.40–23.00. – **N.:** 06.00, 07.00, 12.00, 13.00, 19.30, 22.15. – **Religious:** Sun.: 06.30 (Evangelistic), 08.00 (Music), 08.30 (Mass from R. Vaticana).

2. Prgr.: D. 06.30(Sun. 06.50)–22.30. – **N.:** 06.30(W), 12.30, 14.00(W), 19.00(W), 22.15(W). – **Wrp.:** 14.00.

3. Prgr.: W. 18.00–23.00. Sun.: 14.30–17.00, 18.00–23.00.

N.: D. 20.00.

Night Prgr. (Notturno dall'Italia): 22.35–05.40.

Music followed by newscasts in Italian, French, English, German from R. Roma 2 on 845 kc/s and **9515 kc/s.**

FOREIGN SERVICE

Radio Roma 50/60/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
566	530.0	7275	41.24	9710	30.90	15325	19.58
845	355.0	7290	41.15	11800	25.42	15400	19.48
1115	269.0	9515	31.53	11810	25.40	17740	16.91
5960	50.34	9575	31.33	11905	25.20	17770	16.88
6010	49.92	9630	31.15	15120	19.84	17800	16.85
6060	49.50					21560	13.91

EUROPEAN SERVICE "Rome calling Europe"

Albanian	**kc/s**	**Polish**	**kc/s**
13.30–13.45	7290, 9575	13.00–13.15	6010, 9630, 11810
17.35–18.00	6010, 9575	17.35–17.45	6010, 9575
Arabic:		20.10–20.25	5960, 7275
14.10–14.25	566, 1115, 9515	**Portuguese**	
Bulgarian		21.35–22.00	5960, 7275
20.55–21.15	6010, 7290, 9575	**Rumanian**	
Czech		13.00–13.15	7290, 9575
13.15–13.30	6010, 9630, 11810	20.35–20.55	6010, 7290, 9575
18.25–18.35	5960, 7275, 9710	**Russian**	
20.25–20.40	5960, 7275	03.30–03.45	6010, 7275, 9575, 9630, 11810
Danish/Swedish/Italian*		14.05–14.20	9575, 11905
17.35–17.55	5960, 7275, 9710	**Serbian**	
English		21.15–21.35	6010, 7290, 9575
18.20–18.40	6010, 9575	**Slovak**	
French		13.45–14.00	6010, 9630, 11810
18.00–18.20	6010, 9575	21.00–21.15	5960, 7275
German	**kc/s**	**Slovene**	
13.30–13.45	6010, 9630, 11810	13.45–14.00	7290, 9575
18.10–18.25	5960, 7275, 9710 for Austria	**Spanish**	
		22.00–22.25	5960, 7275
20.40–21.00	5960, 7275	**Turkish**	
Greek		19.25–19.50	5960, 7275
19.05–19.25	5960, 7275	**Ukrainian**	
Hungarian		18.40–19.00	6010, 9575
13.15–13.30	7290, 9575	**Belgian/Esperanto/English & French****	
21.35–21.55	6010, 7290, 9575	17.55–18.10	5960, 7275, 9710
Lithuanian			
19.50–20.10	5960, 7275		

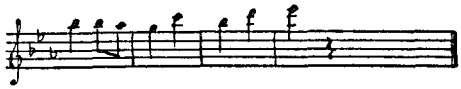
* **Danish:** Tues., Thurs., Sat.; **Swedish:** Mo., Wed., Fri.; **Italian:** Sun.
** For Belgium (F.) Sat.; **Esperanto:** Tues., Wed., Fri.; **English & French:** Mo.,Thurs.

GENERAL OVERSEAS SERVICE AU, NZ, PACIFIC
English kc/s
09.00–09.40 15325, 17800, 21560
Ita ian
06.50–07.50 11905, 15325, 17740 17800, 21560
20.00–20.30 9575, 9710, 11810
22.00–22.25 9575, 9710, 11810
SO.EA.ASIA&THE FAR EAST
Chinese
09.45–10.05 15120, 17800
English, French
10.45–11.25 15400, 17770, 21560
Indonesian
09.45–10.05 15325, 17770, 21560
Japanese
10.10–10.40 15120, 15325, 17770 17800, 21560
SO.ASIA
Hindi
15.15–15.30 11905, 15325, 15400 17770, 21560
Urdu
14.50–15.05 11905, 15325, 15400 17770, 21560
Bengali
15.05–15.15 11905, 15325, 15400 17770, 21560
AFRICA & NEAR EAST
Arabic
06.30–06.45 6010, 9575, 11905, 15400, 17800
12.25–12.55 9710, 11810, 15325 15400, 17800
19.20–19.55 6010, 9575, 11810
English
09.20–09.40 11905, 15120
French
09.00–09.20 11905, 15120
Italian kc/s
10.45–11.25 15325, 17800
16.00–17.30 9575, 11810, 15325, 17770, 21560
Persian
14.25–14.45 11905, 17770
SOUTH AFRICA
English
15.35–15.55 17770, 21560
Somali
19.05–19.18 6010, 9575, 11810
C.&S. AMERICA
Italian
18.40–19.00 15325, 17770, 21560
Portuguese
00.30–00.50 9630, 9710, 11810
Spanish
00.50–01.10 9630, 9710, 11810
03.05–03.25 9630, 9710, 11800
N. AMERICA
English
00.30–00.50 11905, 15400
03.05–03.25 9575, 11905
French
00.50–01.10 11905, 15400
Italian
22.30–00.30 9630, 9710, 11810, 11905, 15400
01.15–03.05 9575, 9630, 9710, 11800, 11905
SPECIAL PRGR'S ITALIAN
Press Review, News
07.30–08.05 11905, 15325, 17740 17800, 21560
15.35–15.55 6010, 7290, 11810
Dictation News
08.05–08.55 11905, 15325, 17740 17800, 21560
14.05–14.45 15325, 17800, 21560
Sport (Sun. only)
14.55–16.05 15325, 17740, 17770 17800, 21560

ANN.: "RAI – Radiotelevisione Italiana – Stazioni del (Programma Nazionale, Secondo Programma, Terzo Programma)". Night Prgr.: "RAI – Radiotelevisione Italiana – Stazione di Roma 2 che trasmette sulla lunghezza d'onda di m. 355 pari a kc/s 845". – "Notturno dall' Italia". – **INT.-SIG.:** Bird chirping. – **V.** by QSL-card.

★ LUXEMBOURG ★

L.T.: GMT+1 h. – **Pr. L.:** Luxembourgian, French, Flemish, English, German. – **Po.:** 322.000. – **Rcvrs.:** 93.160. – **E.C.:** 110/220 V., A.C., 50, 60 c/s; 110/220 V., D.C.
RADIO LUXEMBOURG (Comm.)
ADDR.: Compagnie Luxembourgeoise de Télédiffusion, Villa Louvigny, Luxembourg. **Cable:** "Radio Luxembourg". – **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Secr. Gen.: G. Graas.
STATIONS: R. Luxembourg I and II:
I 233 kc/s 1287 500 kW – 6090 kc/s 49.26 m 50 kW* d.
II 1439 – 208 – 350 – – 15350 – 19.54 – 5 – d.
FM: 92.5 mc/s 15 kW. *Relay 1439 kc/s.
HOME SERVICE in Luxembourgian on 92.5 mc/s.
W. 11.30–12.30, 18.00–20.30. – **N., Comm.:** D. 11.45, 18.30. **Nat. Music:** Sun. 19.30–20.00, Thurs. 20.00–20.30, Sat. 18.00–18.30.
FOREIGN SERVICE
On 233/15350 kc/s: 04.45–24.00 in **French, German.**
N., Comm., French: W. 05.40, 06.30, 07.33, 11.25, 12.00, 18.15, 22.00, 23.00, 23.55. Sun.: 06.30, 07.00, 12.00, 18.15, 20.50, 23.00.
Rel. Prgr.'s: German: 04.45–05.35 (Sun. 05.45, Wed., Thurs. 05.20). **French:** Sun. 06.02–06.30, Wed., Thurs. 05.20–05.35.
On 1439/6090 kc/s: Flemish: W. 05.45 (Wed., Thurs., Fri. 05.30)–12.00. Sun. 05.45–13.00. **German:** 12.00 (Sun. 13.00)–17.00.
English: 18.00–23.00 (Sat. & Sun. 23.30).
N., Comm.: Flemish: 06.45, 11.51 (W), 12.00 (Sun.). **German:** 13.00, 16.55 (W).
Rel. Prgr's: Flemish: Sun. 05.45–06.00, 07.00–07.15. **Polish:** Mo. 05.30–05.45. **Russian:** Tues. 05.30–05.45. **Hungarian:** Sat. 05.30–05.45. **English:** D. exc. Sat. & Sun. 22.00–23.00.
ANN.: F.: "Ici R. Luxembourg". **E.:** "Here R. Luxembourg". **Fl.:** "Hier is R. Luxembourg". **G.:** "Hier R. Luxembourg". **Luxembourgian:** "Hei ass R. Letzeburg".
INT.-SIG.: Melody played on piano: A Luxembourgian popular song.



V. by letter. – **PUB.:** "Radio Magazine" (for French listeners) and "Notre Radio" (for Belgian listeners).

★ MADEIRA ISLANDS (Portuguese) ★

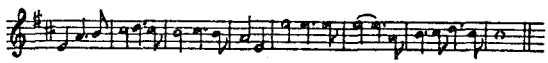
L.T.: GMT+1 h. (Su. GMT). **Pr.L.:** Portuguese. **Po.:** 254.000. – **E.C.:** 220/380 V., A.C., 50 c/s.
EMISSORA NACIONAL see Portugal (Go.)
RADIO CLUB DE MADEIRA (Pr.)
ADDR.: S. Martinho, Funchal.
HOME SCE.: CBS90 1484 kc/s 202 m 1 kW:
13.30–15.30, 20.00–02.00.
ANN.: "Ouvem a Estaçao o seu emissor de onda média, CSB90, no comprimento de onda de 202 m frequencia de 1484 kc/s". –
V. by QSL-card.
RADIODIFUSAO DE FUNCHAL (Pr.)
1594 kc/s 188.2 m 0.15 kW:
W.: 13.30–17.00, 21.00–02.00. Sun.: 11.30–13.30, 15.00–02.00.

★ MALTA (British) ★

L.T.: GMT+1 h. – **L.Pr.:** English, Maltese. – **Po.:** 320.000. – **Rcvrs.:** 46.500. – **E.C.:** 100/200 V., A.C., 50 c/s.
REDIFFUSION (MALTA) LTD. (Pr. Comm.)
ADDR.: Rediffusion House, St. Luke's Rd., Guardamangia. – **Cable:** Rediffusion. – **L.P.:** Gen. Mgr.: E. A. Hamilton-Hill. Asst. Gen. Mgr.: G. A. Slater. Dir. Prgr.: G. Binns. Dir. Tec.: A. G. Chambers, AMIRE **D. PRGR.: Prgr. I:** 06.00–23.00. N. BBC Gen. Overseas Sce. – **Mbg.:** Sun. 08.00–09.30. – **Prgr. II: Maltese:** 05.00–22.00. – **N.:** 12.00, 17.30. **Wrp.:** 05.59, 15.30. – **Mbg.:** 08.00–09.00.

★ MONACO ★

L.T.: GMT+1 h. – **Pr. .L** French. – **Po.:** 20.000. – **Rcvrs.:** 5.100. – **E.C.:** 110/115 V., A.C., 42 c/s.
RADIO MONTE-CARLO (Comm.)
ADDR.: 16, Boulevard Princesse Charlotte, Monte Carlo. – **L.P.** Dir. Gen.: R. Schick. Dir. Tec.: M. Auvray. Dir. Prgr.: P. Brive.
HOME SCE.: 1466 kc/s 205 m 400 kW – 6035 kc/s 49.71 m 25 kW 7140 kc/s 42.02 m 25 kW. – **FM:** 93.5 mc/s.
Mo., Wed. 05.30–23.05. Tues. 05.30–00.05. Thurs. 05.05–23.35. Fri. 05.00–23.35. Sat. 05.00–01.05. Sun. 05.40–23.35.
N.: From 06.00 to 18.00 every h. on the h. and 18.35, 21.00, 22.00, 23.00. – **Wrp.:** After N. at 06.00, 12.00, 17.00, 18.35, 21.00, 22.00.
Night-Prgr. (fortnightly): Mo. 23.05. – Tues. 05.15 on 1466 kc/s only.
FOREIGN SCE.: (on all frequencies exc. where indicated) **English:** Tues., Thurs. 23.05; Fri. 05.00, 23.05. – **Italian:** Sun. 05.40, W. 05.50; Mo. 21.10 (on s.w. only) – **German:** Fri. 21.30 (on s.w. only). – **Dutch:** Thurs. 21.30 (on s.w. only). – **Russian:** Sat. 05.00. – **Spanish:** Fri. 21.10 (on s.w. only).
ANN.: "Ici Monte Carlo". – **INT.-SIG.:** The first movements of "L'Hymne National Monégasque":



V. by QSL-card or letter. – **PUB.:** Weekly prgr.sched.

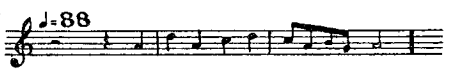
★ NORWAY ★

L.T.: GMT+1 h.; 15/3–20/9 GMT+2 h. – **Pr.L.:** Norwegian. – **Po.:** 3.200.000. – **Rcvrs.:** 996.500. – **E.C.:** 220 V., A.C., 50 c/s.
NORSK RIKSKRINGKASTING (Go.)
A non-comm. enterprise operated by an indep. organization.
ADDR.: Bj. Björnsonsplass 1, Oslo. – **Cable:** Studio, Oslo.
L.P.: Dir.: K. Fostervoll. Dir. Prgr.: Th. Diesen. Dir. Adm.: K. Tvedt. Dir. Tec.: Chr. Vibe. Chief Secr.: B. Kragem. Studio Controller: A. Klæbo. Prgr. Editors: Toralv Øksnevad, Karl C. Lyche, H. Kiran, L. Rustad. Dir. Music: K. Lange. Dir. Plays: H. Heiberg. Editor "Programbladet": E. Strand. Dir. S.w. Prgr.: G. Nygaard.
HOME SCE.: W.: 06.30–07.35, 18.00–22.00. Sun.: 07.50–09.55, 18.00–22.00.

Long- and Medium Waves

	kc/s	m	kW		kc/s	m	kW
Tromsö	155	1935	10	Notodden	1115	269	1
Oslo	218	1376	200	Röros	1115	269	0.25
Sulitjelma	511	587	0.25	Stavanger	1313	228	100
Vigra	629	477	100	Geilo	1466	205	0.25
Bodö	674	445	10	Narvik	1466	205	1
Finmark	701	428	20	Odda	1466	205	0.25
Bergen I	890	337	20	Porsgrunn	1466	205	1
Kristianssand	890	337	20	Sandnessjöen	1466	205	0.25
Tröndelag	890	337	20	Svalbard	1466	205	1
Alta	1115	269	0.25	Brönnöysund	1484	202	0.25
Arendal	1115	269	0.25	Glomfjord	1484	202	0.25
Bergen	1115	269	1	Mosjöen	1484	202	0.025
Lista	1115	269	0.3	Rjukan	1484	202	0.25
Mo i Rana	1115	269	0.025	Fredrikstad	1578	190	10
Namsos	1115	269	1	Nordkapp	1578	190	2

FM: Bjerkreim 90.6 mc/s 60 kW – Bremanger 93.6 mc/s 15 kW – Gulen 90.9 mc/s 15 kW – Hesteheia 88.8 mc/s 11 kW – Hovdefjell 87.8 mc/s 15 kW – Lyngdal 97.6 mc/s 12 kW – Steinkjer 90.9 mc/s 12 kW – Stord 91.8 mc/s 60 kW – Tryvasshögda* 93.8 mc/s 5.5 kW – Vega 89.1 mc/s 25 kW – Voss 90.3 mc/s 8 kW. – * Testtransmissions.
Rediffusion (1000 m) Opdal 0.25 kW – Åndalsnes 0.25 kW – Åseral 0.25 kW – Aröy 0.65 kW – Sulitjelma 0.25 kW – Langerak 0.6 kW Tonstad 1.5 kW. **N.:** 05.40(W), 07.00(W), 08.00(Sun.), 12.00, 18.05. 21.10. – **Wrp.:** 05.40(W), 07.00(W), 08.00(Sun.), 12.00, 18.00, 21.00.
Bergen I (337 m, Voss FM, Odda 205 m, Aröy 1000 m): Mo.–Fri, 15.10–15.30: Information.
Bergen II Local: D. 16.00–17.30(Sun. 17.45).
Tromsö s.w. tr. carries the Norwegian Home Sce. on 11850 kc/s.
North Norwegian Prgr.: Local: Tues., Wed., Thurs., Sat. 13.00–13.15. This prgr. is broadcast by the stations: Brönnöysund, Sandnessjöen, Mosjöen, Mo i Rana, Sulitjelma, Bodö, Narvik, Glomfjord, Tromsö, Alta, Nordkapp, Finmark.
Samisk from Tromsö, Alta, Nordkapp, Finmark: Tues. 13.10–13.40. Sat. 13.30–14.00.
ANN.: "Dette er Norsk Rikskringkasting". **In Samisk:** "Dat la Norga Rikaradio, Tromsast. Di gullabetet Samgial programa". – **INT.-SIG.:**



FOREIGN SERVICE

Frequencies that may be used during the year. Transmitters: Fredrikstad 100 kW (1), 10 kW (2), 5 kW (one, 13 m only), Tromsö 10 kW (1).

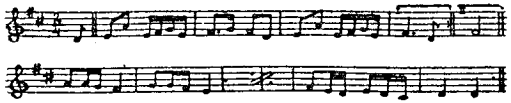
Call	kc/s	m	Call	kc/s	m	Call	m	kc/s
LKF	1578	190.1	LLD	9550	31.41	LLM	15175	19.77
LKJ	6130	48.94	LLG	9610	31.22	LKW	17755	16.90
LLI	6185	48.50	LLH	9645	31.10	LLN	17825	16.83
LLS	7210	41.61	LKQ	11735	25.56	LLP	21670	13.85
LLR	7240	41.44	LLK	11850	25.32	LLQ	21730	13.81
			LKV	15170	19.78	LLA	25900	11.58

a: Home Sce. b: For Norwegians abroad. c: Weather at Sea (in Norwegian only). d: Norway this week.

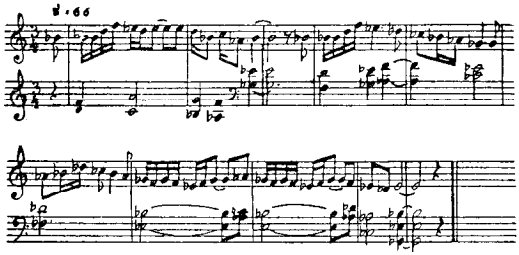
h. of tr.		Beamed Areas	m.b.
W.	06.30–07.35 a	Eu., Af., Mid. So. Atl.	48, 25, 19, 16, 13, 11
Sun.	07.00–08.55 a	Beamed Areas	
W.	10.25–10.35 c	No. M. Atl.	48, 25, 19, 13, 11
	11.00–12.15 b	F.Ea., Jap., N.Z.,	48, 25, 19, 16, 13, 11
Sun.	12.00–12.25 d	E.Au.	
	13.00–14.15 b	Indian Ocean, We.Au.,	48, 19, 16, 13, 11
Sun.	14.00–14.25 d	Eu.	
	16.00–17.15 b	Mediterranean, Af.,	48, 31, 19, 16, 13, 11
Sun.	17.00–17.25 d	Mid. Atl.	
	18.00–22.00 a	Eu., Af.	48, 31, 19, 16, 13, 11
	22.55–23.00 c	No. Mid. Atl.	190, 48, 25, 19, 16
	23.00–00.15 b	S. Am.	
Mo.	00.00–00.25 d		
	00.55–01.00 c	No. Mid. Atl.	
	01.00–02.15 b	No. Am., No. Atl.	190, 48, 31, 25, 19
Mo.	02.00–02.25 d		
	03.55–04.00 c	No. Mid. Atl.	
	04.00–05.15 b	No. Am. (We. Coast)	190, 48, 31, 25, 19
Mo.	05.00–05.25 d	Pa., Ea.Af.	

Prgr. for Norwegians abroad: Sun.: Religious Sce., Sport. L.N. – Mo.: Sport N., Parliament N. – Tues.: Actualities. L.N. – Wed.: Request Prgr. (music). L.N. – Thurs.: World N., L.N. – Fri.: Missionary N., L.N. – Sat.: Letter Box, L.N.
For Norwegian Seamen in the No. Atlantic and No. Sea:
Tromsö S.W. Tr. broadcasts daily the entire Home Sce. on 11850 kc/s.
ANN.: "This is Radio Norway with its shortwave service for Norwegians abroad".

INT.-SIG.: Every s.w. transmission is introduced by the following theme, which originates from an ancient folk tune from Hallingdal



Five minute previous to every s.w. tr. the following signal is sent:



Message to our English-speaking audience: In our daily prgrs. for Norwegians abroad we will usually have a section of Norwegian music or music presented by Norwegian artists. This musical section, which lasts 15 to 20 minutes, is introduced in **English** as well as in **Norwegian.** On Wed. and Sat. you can listen to "our **"Letter Box Programme"**, in which we play our listeners' **request records.** We often receive letters from listeners in Norway with request to play a record with a greeting to one of their relatives abroad, but we regret to be unable to comply with these requests. Every Sunday we have an additional prgr. in English, **"Norway this week"**, in which we try to present Norway in different ways through music and feature prgrs. We are very grateful for comments on our transmissions. Reports are answered by QSL-card. Return postage is not necessary. Our postal address is: **RADIO NORWAY,** Oslo, Norway.
PUB.: Programbladet (weekly).
NOREA RADIO (Nordic Radio Evangelic Association)
ADDR.: Grensen 19, Oslo. – **L.P.:** Dir. Adm. & Prgr.: M. Leine.
D. Prgr.: 20.30–21.00 on 9765 kc/s 30.72 m 10 kW. **The Voice of Tangier.** – **V.** by QSL-card.

★ POLAND ★

L.T.: GMT+1 h. (Su.+2 h.). – **Pr.L.:** Polish. – **Po.:** 28.000.000. – **Revrs.:** 4.800.000. – **E.C.:** 220 V., A.C., 50 c/s.
POLSKIE RADIO (Go.)
ADDR.: Komitet do Spraw Radiofonii "Polskie Radio" ul. Noakowskiego 20, Warsaw. – **Cable:** "Polskieradio". – **L.P.:** Pres.: W. Sokorski. Vice Pres., Home Sce.: H. Werner. Vice Pres., Foreign Sce.: E. Uzdanski. Vice Pres., Engineering: K. Kozlowski. Dir. TV: J. Panski. Dir. Adm.: A. Landau. Secr. Gen.: H. Cendrowski. Dir. Music: R. Jasinski. Dir. Tec.: B. Klimaszewski. Dir. Foreign Relations: Mme E. Przastkowa.

HOME SERVICE:

	kc/s	m	kW		kc/s	m	kW
Warszawa I	227	1322	500	Gdansk	1304	230	30
Warszawa II	818	367	300	Szczecin	1304	230	50
Katowice	1079	278	60	Lodz	1484	202	8
Poznan	1205	249	300	Opole	1484	202	1
Wroclaw	1259	238	50	Krakow	1502	197.6	60

FM: Warszawa III 97.6 mc/s 9 kW. Katowice 89.8 mc/s 3 kW. Opole 95.0 mc/s 3 kW.
Prgr. 1: 227 kc/s: W. 03.57–22.10(Sat. 22.40). Sun. 04.30–22.40.
Prgr. 2: 818 kc/s: W.: 04.27–11.15, 14.00–23.00(Sat. 01.00). Sun. 05.00–23.00.
Prgr. 3: 97.6 mc/s: D. 03.57–20.00 (rel. Prgr. 1), 20.00–22.00 exc. 1st Sat. in the month: 19.30–22.00. – **Chopin Concerts:** Prgr. 1: Wed. 20.00, Prgr. 2: Sun. 15.30, Sat. 10.00. – **Folk Music:** Prgr. 1: Tues. 11.04–11.20, Thurs. 11.04–11.30, Sun. 12.15–12.45. Prgr. 2: Fri. 14.10–14.30. – **The Polish Radio Symphony Orchestra (WOSPR) Concerts:** Prgr. 2: Mo. 20.00–21.40. – **National Philharmonics Concerts:** Prgr. 1: Fri. 18.30–20.30. – **Symphony Concerts:** Sun. 11.04–12.20 **N.:** Prgr. 1: 04.00, 05.00, 06.00, 07.00, 13.00, 15.00, 17.00, 19.00, 22.00. Sun.: 05.00, 06.00, 07.00, 08.00, 11.04, 15.00, 17.00, 19.00, 22.00. – Prgr. 2: 04.30, 05.30, 06.30, 07.30, 11.04, 14.00, 18.00, 20.00, 22.50. Sun.: 05.30, 06.30, 07.30, 11.04, 16.00, 18.00, 20.00, 22.50.

FOREIGN SERVICE (15. 10. 59–15. 4. 60)

kc/s	m	kc/s	m	kc/s	m	kc/s	m
227	1322	1205	249	5950	50.42	7125	42.11
1304	230	1079	278	6005	49.96	7315	41.01

kc/s	m	kc/s	m
9525	31.50	9775	30.69
9540	31.45	11740	25.55
11815	25.39	15120	19.84
11905	25.20	15275	19.64
		17800	16.85

EUROPEAN SERVICE:

Danish: kc/s
16.30–17.00 9540, 7125, 5950
18.30–19.00 7125, 5950
20.30–21.00 7125, 5950, 1205

English:
18.30–19.00 9540
19.30–20.00 7125, 5950, 1205
20.30–21.00 7315, 9775
21.30–22.00 9540, 5950

Finnish:
16.00–16.30 9540, 7125, 5950
18.00–18.30 9540, 7125, 5950
19.30–20.00 9540

French:
11.00–11.15 11815, 15275, 17800
16.30–17.00 11815, 9525
17.30–18.00 11815, 9525, 1205
20.00–20.30 9775, 7315, 1205
21.30–22.00 9775, 7315

German:
17.00–17.30 9775, 7315, 1205
18.30–19.00 9775, 7315, 1205
19.30–20.00 9775, 7315
21.00–21.30 9775, 7315
22.45–23.15 227 (Mo.–Fri.)
23.15–23.45 227 (Sat., Sun. only)

Italian:
18.00–18.30 11815, 9525, 1205
20.00–20.30 11815, 9525
21.00–21.30 11815, 9525
22.00–22.30 11815, 9525

Polish:
06.00–08.00 11815, 11740, 9540, 7125, 7315
12.30–13.00 11905, 9775, 9525, 7125
15.00–15.30 11815, 9775, 9540, 9525, 7315, 7125, 5950, 1205
16.00–16.30 9775, 7315

Polish kc/s
16.30–17.00 9775, 7315, 1205
17.00–17.30 9540, 7125, 5950
17.30–18.30 9775, 7315
19.00–19.30 9775, 7315
20.00–20.30 7125, 5950
21.00–21.30 9540, 7125, 5950, 1205
23.15–23.45 1304, 1079

Spanish:
17.00–17.30 11815, 9525
19.00–19.30 7125, 5950
20.30–21.00 11815, 9525

Swedish:
17.30–18.00 9540, 7125, 5950
19.00–19.30 9540, 1205
22.15–22.45 227 (Mo.–Fri.)
22.45–23.15 227 (Sat., Sun. only)

Esperanto:
15.30–16.00 11815, 9775, 9540, 9525, 7315, 7125, 5950, 1205

Concerts for Europe:
16.00–16.30 1205
18.30–19.30 11815, 9525
20.00–21.00 9540
21.30–23.00 7125, 1205

NO. AMERICAN SCE.:

English:
11.30–12.00 17800, 15275, 15120
12.30–13.30 17800, 15275, 15120
00.30–01.30 15275, 11815, 7315
02.30–03.30 15275, 11815, 7315

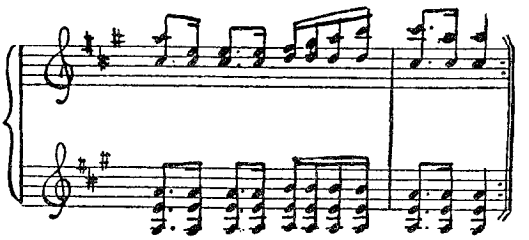
Polish:
12.00–12.30 17800, 15275, 15120
01.30–02.30 15275, 11815, 7315
03.30–05.00 15275, 11815, 7315

SO. AMERICAN SCE.:

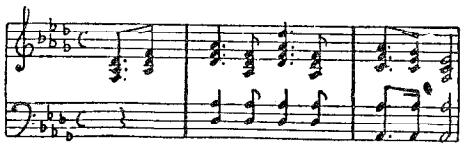
Polish:
22.15–22.45 17800, 15275
22.45–00.15 17800, 15275, 11815

ANN.: Home Sce.: "This is Polskie Radio Warsaw" (or another station when local programme) – "Tu Polskie Radio Warszawa". – Foreign Sce.: English: "This is Warsaw calling". – Polish: "Mówi Warszawa". French: "Ici Varsovie etc."

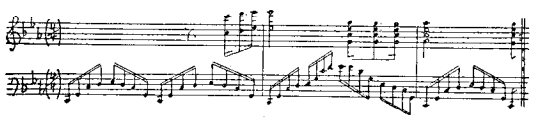
INT.-SIG.: Home Sce.: Warsaw National, Warsaw I:



Warsaw II: First movement of Polonaise in A flat major by Chopin



Foreign Sce.: Revolutionary Etude by Chopin. – V. by QSL-card.



★ PORTUGAL ★

L.T.: GMT (Su. GMT+1 h., from 1st Sun. in April to 1st Sun. in October). – **Pr.L.:** Portuguese. – **Po.:** 9.000.000. – **Revrs.:** 675.000. – **E.C.:** 110/220 V., A.C., 50/60 c/s, D.C.

EMISSORA NACIONAL DE RADIODIFUSAO (Go.)

ADDR.: Rua do Quelhas 2, Lisboa. – **Cable:** "Emissora-Lisboa". – Emissor Regional do Norte: Rua Candido dos Reis, Porto. – Emissor Regional de Coimbra, Faro, Guarda. – Emissor Regional dos Açores: Ponta Delgada, Açores. – **L.P.:** Dir. Gen.: A. d'Eça de Queiroz. Dir. Tec.: Eng. M. Bivar. Dir. Adm.: Dr. C. Rogeiro. Dir. Prgr.: Eng. J. da Silva Dias. Foreign Sce.: T. Alcaide.

HOME SERVICE

Medium Waves:	kc/s	m	kW	h. of tr.
Lisboa I	665	451.1	135	07.30–10.00(a), 12.00–15.00(b) 18.00–24.00
Lisboa II	755	397.3	135	19.00–24.00(c)
Norte I	1061	283	25	as Lisboa I
Norte II	719	417	25	12.00–13.15(c), 19.00–24.00
Porto	1367	219	10	as Lisboa I
Coimbra	1448	207	1	08.30–10.00(d,e) 12.00–15.00(b)
Faro	1484	202	1	18.00–24.00
Guarda	557	539	1	
Covilhã	1562	192.1	1	13.00–14.00(d,f), 18.00–24.00
Viseu	1358	220.9	1	
Portalegre	1484	202.2	0.1	18.00–24.00(d)
Elvas	1358	220.9	0.1	
Short Waves:				
Atlântico (Lisboa)	15150	19.80	10	12.00–15.00(g, h)
	6373	47.09	10	18.00–24.00(i)
Açores Regional (Ponta Delgada)	4865	61.66	1	14.00–15.00, 20.00–24.00

FM:
Lisboa – 9430 mc/s 12 kW (ERP) as Lisboa I
Porto – 92.50 mc/s 22 kW (ERP) as Lisboa I

a) Sun. 07.30–24.00 – b) Sat. 12.00–24.00 – c) Sun. 13.00–24.00 – d) Sun. 11.00–24.00 – e) Holidays 08.30–24.00 – f) Sat. 13.00 24.00 – g) Sun. 11.00–18.45 – h) Sat. 12.00–18.40 – i) Sat. & Sun. 19.00–24.00. **N.:** Lisboa I: 07.40, 08.30, 13.00, 18.00, 21.00, 23.45. Lisboa II: 19.50. Porto II, Coimbra, Guarda: 20.30. – **Wrp.:** 08.30, 09.55, 13.00, 14.55, 21.00, 23.45.

ANN.: "Emissora Nacional a transmitir com... (regional tr.)". – **V.** by QSL-card or letter. – **PUB.:** "Aqui Lisboa", which contains the s.w. sched. Free upon request.

OVERSEAS SERVICE

Short Waves: All stations Lisboa exc. those marked with * (Ponta Delgada). All stations directional exc. 123, 75 and 61 m.b. All stations 100 kW exc. 2422 kc/s (1), 75 m.b. (10), 61 m.b. (1). Call: CSA—.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
98	2422*	123.9	25	9680	30.99	39	15100	19.87
73	3980	75.38	26	9727	30.84	35	15110	19.85
74	3990	75.19	27	9740	30.80	36	15120	19.84
93	4845*	61.92	28	9746	30.78	64	15125	19.83
97	4865*	61.66	57	9765	30.72	33	15150	19.80
94	4880*	61.48	76	9775	30.69	34	15160	19.79
206	5960	50.34	40	11720	25.60	37	15320	19.59
78	5976	50.20	208	11755	25.52	65	15355	19.54
207	6020	49.83	31	11840	25.34	42	15380	19.50
52	6025	49.79	58	11875	25.26	43	17740	16.92
29	6185	48.50	59	11895	25.22	79	17815	16.84
38	6360	47.17	30	11915	25.18	209	17835	16.82
21	6374	47.09	92	11915*	25.18	44	17870	16.79
91	7018*	42.75	77	11920	25.17	45	17880	16.78
60	7049	42.56	71	11925	25.16	46	17890	16.77
55	7130	42.07	95	11925*	25.16	66	17895	16.76
53	7225	41.52	72	11930	25.15	67	21495	13.96
22	7260	41.32	96	11930*	25.15	47	21660	13.85
54	7265	41.30	62	11935	25.14	48	21690	13.83
23	9635	31.14	41	11958	25.09	49	21700	13.83
56	9645	31.10	63	11964	25.07	50	25650	11.70
20	9650	31.09	32	11995	25.01	68	25665	11.69
24	9670	31.02	75	15050	19.93	51	25700	11.67

Remark: Powers indicated are the powers at carrier level.
I=Timor; II=Macau; III=India/Pakistan/Persian Gulf; IV=Goa (Portuguese India); V=Kenya/Tanganyika/Uganda/So.Af.; VI=S. Tomé/Angola/Mozambique; VII=New Foundland/Greenland (Portuguese Fishing Fleet); VIII=Guinea/Cape Verde; IX=Brazil; X=No.Am. (Atl. Coast); XI=U.S.A. (Pa. Coast).

H. of tr.	Area	kc/s	L
10.00–13.00	I	21495	P
10.00–13.15	II	21495	P
13.15–13.45	III	21495	Concani
13.45–14.30	III	17880/ 21495	E
14.30–17.15	IV	21495	P
14.30–17.00	IV	17880	P
17.15–18.00	V	17895	E
10.00–13.15*	VI	21700	P
17.15–21.00	VI	21700	P
18.00–21.00	VI	17895	P
20.00–21.30	VI	15125	P

SOCIEDAD ESPAÑOLA DE RADIODIFUSION (S. E. R.)

Oficinas Centrales: Avenida de José Antonio, 32. Madrid. España.

Emisoras que integran la Cadena radiofónica comercial SER.

EAJ 1 Radio Barcelona.
Caspe, 12.

EAJ 3 Radio Valencia.
Don Juan de Austria, 5

EAJ 4 Radio Galicia.
Plaza Universidad, núm. 5.
(Santiago).

EAJ 5 Radio Sevilla.
Rafael Gonzáles Abreu, 4.

EAJ 6 Radio Requete de Navarra
Avenida de Franco, 4
Pamplona.

EAJ 7 RADIO MADRID
Av. de José Antonio, 32
(Emisora central).

EAJ 8 Radio San Sebastián.
Avenida de España, 27.

EAJ 11 Radio Reus.
Arrabal de Santa Ana, 50.

EAJ 13 Radio Mallorca.
Paz, 35

EAJ 14 Radio Castellón.
Moyano, 1.

EAJ 16 Radio Granada.
Gran Via, 27.

EAJ 17 Radio Murcia.
Plaza de Cetina, 2.

EAJ 18 Radio Rioja.
Avenida de Portugal, 12.
(Logroño).

EAJ 19 Radio Asturias
Asturias, 19 Oviedo.

EAJ 22 Radio Huesca.
Coso Alto, 55.

EAJ 23 Radio Gandía.
San Pascual, 15.

EAJ 27 Radio Castilla.
Espolón, 40.
(Burgos).

EAJ 28 Radio Bilbao.
Rodríguez Arias, 8.

EAJ 31 Radio Alicante.
García Morato, 55.

EAJ 32 Radio Santander.
Palacio del Real
Club de Regatas.

EAJ 34 Radio Gijon.
Moros, 45.

EAJ 40 Radio Pontevedra.
Peregrina, 33.

EAJ 41 Radio Coruña.
Fontán, 3.

EAJ 44 Radio Albacete.
Pasaje de Lodares, 4.

EAJ 47 Radio Valladolid.
Avenida Calvo Sotelo, 2

EAJ 48 Radio Vígo.
Principe, 53.

EAJ 50 Radio Las Palmas.
Tríana, 134-bis.

EAJ 52 Radio Extremadura.
Teniente Coronel Yagüe, 2.
Badajoz.

EAJ 54 Radio Alcira.
Plaza del Caudillo, 51.

EAJ 56 Radio Salamanca.
Rosa, 2.

EAJ 58 Radio Jerez.
Angustias, 11.

EAJ 60 Radio Almería
Arapiles, 2 Almería.

EAJ 61 Radio Jaén.
Bernabé Soriano, 18.

EAJ 62 Radio Vitoria.
Postas, 19.

EAJ 63 Radio Lcón.
Villafranca, 8.

EAJ 64 Radio Segovia.
San Augustin. 5.

EAJ 65 Radio Ciudad Real.
Avenida de los Mártires, 10.

EAJ 72 Radio Zamora.
San Torcuato, 20.

Radio Mediterráneo (F. M.)
Avenida del Marqués
de Sotelo, 2.
Valencia.

EAJ 101 Radio Zaragoza.
Avenida Marina
Moreno, 21.

Emisora Extranjera Asociada:

RADIO TANGER
Goya, 34
TANGER (MARRUECOS)

H. of tr.	Area	kc/s	L	H. of tr.	Area	kc/s	L
10.00–13.00	VIII	21700	P	21.30–01.45	IX	17895	P
20.00–24.00	VIII	17895	P	21.45–02.00	IX	15125	P
21.45–24.00	VIII	15125	P	00.00–02.45	X	15125	P
21.30–00.30	VII	15100	P	00.45–04.00	X	11840	P
14.30–17.15	IX	21700	P	02.00–04.00	XI	11840	P

* Sun. 10.00–17.15.

N.: Portuguese: 00.15, 02.30, 11.00, 15.30, 18.00, 19.30, 22.15. English: 14.18, 17.48. Konkani: 13.29.

ANN.: E.: "This is Lisbon Calling". Konkani: "Lisboa apoita".

INT.-SIG.: Time signal and National Anthem. – V. by QSL-card. – **PUB.:** "Aqui Lisboa", quarterly. "Radio e Televisao", weekly.

RADIO RENASCENÇA (Religious Catholic)

ADDR.: Emissora Catolica Portuguesa, Rua Capelo 5, 2° esq°., Lisboa

HOME SERVICE: 08.00–14.00(Sat. 15.00), 18.15–24.00.

Lisboa CSB 3 1286 kc/s 233 m 2 kW – CSB 52 6154 kc/s 48.74 m 3 kW Porto CSB 30 1169 kc/s 256.6 m 10 kW. – **N.:** 13.45, 20.30, 22.45.

ANN.: P.: "Radio Renascenca-Emissora Catolica Portuguesa". – **INT.-SIG.:** Gong. Prgr.s open with a religious choir. – V. by QSL-card.

RADIO CLUBE PORTUGUES (Comm.-Priv.)

(Sociedade Anónima Cooperativa de Responsabilidade Limitada).

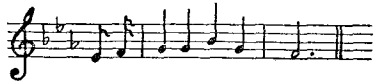
ADDR.: Central Office: Rádio Clube Portugues, Serviços Centrai , Rua Sampaio e Pina 26, Lisboa. – Cable: Radioclube. – Northern Branch: Delegação do Norte, Rua de Ceuta 53, Porto. – Cable: Radioclube. – L.P.: Pres.: Maj. J. B. Moniz. Gen. Mgr.: A. L. Basto. Prgr. Dir.: A. Jorge. Tec. Dir.: Eng. M. Menezes. Comm. Dir.: Cor. R. Pereira da Cunha. – Northern Branch: Dir. Eng. H. Schreck. Dir. Tec.: (Miramar): Eng. P. Niny dos Santos.

HOME SCE.:		kc/s	m	kW	
Miramar	CSB9	782	383.6	100:	11.15–15.00, 18.15–00.30 (Sat., Sun. 09.00–00.30)
Parede	CSB2	1034	290.1	25:	07.00–02.00
Parede	CSB51	6080	49.34	10:	07.00–02.00

FM: Lisboa CSB55 90.2 mc/s 3 kW: 08.30–01.00 – Porto CSB29 90.7 mc/s 1 kW: as CSB9.

ANN.: "Rádio Clube Portugues a transmitir com as suas estaçoes de onda média, onda curta e modulação de frequencia".

INT.-SIG.: Gong. – V. by QSL-card.



RADIO UNIVERSIDADE (Go.-Ministry of National Education)

ADDR.: R. D. Estefânia 14, Lisbca. – **L.P.:** Dir.: Prof. Dr. A. Cabral. Dir. Prgr.: Dr. Caetano de Carvalho. Dir. Tec.: Eng. J. M. Dias.

HOME SERVICE in Portuguese: W. 18.00–18.55. Sun. 11.00–12.55. 755 kc/s 397 m 135 kW. Cultural and informative programmes mainly.

ANN.: "Rádio Universidade, estúdios do Centro Universitário de Lisboa da Mocidade Portuguesa, a transmitir por intermédio da Estação Lisboa 2 da Emissora Nacional". – **INT.-SIG.:** Opens and closes with the "Marcha da Mocidade Portuguesa". – V. by letter. – **PUB.:** A Bulletin in Portuguese monthly; sent free of charge.

EMISSORA LICEU DE PEDRO NUNES (Go., Ministry of Education). – **ADDR.:** Av. Alvares Cabral, Lisboa.

HOME SERVICE: Wed., Fri. 17.00–18.30. Sun. 10.00–12.00.

CSB56 6003 kc/s 49.97 m 0.15 kW. – V. by QSL-card.

EMISSORES ASSOCIADOS DE LISBOA (Comm.)

R. Peninsular – R. Graca – R. Voz de Lisboa – Clube Radiofonico – R. Restauração.

CSB4 1594 kc/s 188 m 1 kW: 08.00–01.00 (Sun. 07.00–01.00).

EMISSORES DO NORTE REUNIDOS, Porto (Comm.)

ADDR.: R. D. João IV, 960, Porto.

CSB5 1578 kc/s 190.7 m 10 kW: 08.00–01.00.

RADIO RIBATEJO, Santarem (Comm.): 1322 kc/s 226.9 m 0.15 kW: W.: 10.00–14.00, 16.00–20.00. Sun. 10.00–20.00. – V. by letter.

R. ALTO-DOURO (Comm.) 800 kc/s 375 m 0.25 kW: 12.00–14.00.

★ RUMANIA ★

L.T.: GMT+2 h. – **Pr. L.:** Rumanian. – **Po.:** 17.489.450. – **Rcvrs.:** 1.500.000. – **E.C.:** 120/208 V, A.C., 50 c/s.

RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)

ADDR.: P.O.B. 111, Bucuresti, Republica Populara Romina.

Cable: Radiodifuziunea.

HOME SERVICE:

D. PRGR:			Weekdays		Sundays	
kc/s	m	kW	1st Prgr.	2nd Prgr.	1st Prgr.	2nd Prgr.
155	1935	150	03.00–22.00		04.00–22.00	
854	351	150	03.00–12.00	12.00–22.00[1]		05.00–22.00
1484	202	5	12.00–22.00		04.00–22.00	
1052	285	20	03.00–06.30	12.00–16.00		
				17.30–22.00[2]		05.00–22.00
1151	261	30	03.00–03.30	12.00–12.30		06.30–07.30
909	330	1	05.15–06.30[6]	17.30–22.00[3]		08.30–14.30
						14.45–22.00

D. PRGR:			Weekdays		Sundays	
kc/s	m	kW	1st Prgr.	2nd Prgr.	1st Prgr.	2nd Prgr.
1457	206	20	03.00–06.30	12.00–22.00[4]		05.00–22.00[10]
755	397	50	03.00–04.00[9]	12.00–13.00		05.00–05.40
			04.45–12.00	14.00–14.30		06.15–07.30
				15.00–17.00[8]		08.30–13.30
						14.00–17.00[11]
557	540	1		12.00–15.30[7]		12.00–14.00
				17.00–22.00[5]		14.30–22.00

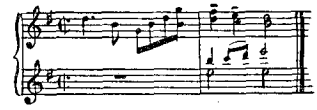
[1] [2] [3] [4] [5] Sun. until 22.50. [6] Mo. until 06.00. [7] Mo. until 14.00. [8] Mo. from 15.30. [9] Mo. from 04.30. [10] Sun. Reg. Prgr. 08.00–08.30. [11] Exc. 14.30–14.45.

Besides we broadcast daily 1–3 hours Reg. prgr.: Cluj in Rumanian, Hungarian; Timisoara in Rumanian, German, Serbian; Mures in Rumanian, Hungarian; Craiova – Iasi in Rumanian.

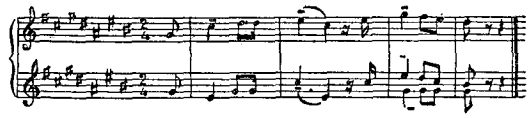
N., Commentaries: 1' Prgr.: D.: 03.00, 04.00, 05.00, 09.00, 11.00, 13.00, 15.00, 17.00, 18.00, 20.00, 21.52. Sun.: 04.00, 11.00, 17.30, 20.00, 21.52. – 2' Prgr.: D.: 12.00, 14.00, 16.00, 19.00, 21.00. Sun.: 05.50, 12.00, 18.00, 21.00.

ANN.: Home Sce.: 1st Prgr.: Opening: "Aici Bucuresti, dragi ascultatori, buna dimineata. Transmitem Programul nostru pe statiile de radio cu lungimile de unda de...". 2nd Prgr.: "Aici Bucuresti, transmitem Programul II pe statiile de radio cu lungimile de unda de...". Close down: 1st, 2nd Prgr.: "Aici Bucuresti, Dam ora exacta. Emisiunea noastra s-a terminat. Ascultati-ne din nou miine dimineata la orele... pe lungimile de unda de... Dragi ascultatori, noapte buna". – **PUB.:** Weekly: "Programul de Radio si Televiziune", free on request.

INT.-SIG.: I Prgr.:



II Prgr.:



FOREIGN SERVICE

155 kc/s	1935.0 m	9254 kc/s	32.43 m	11937 –	25.13 m
755 –	397.0 –	9570 –	31.35 –	15250 –	19.67 –
6210 –	48.31 –	11810 kc/s	25.40 –	15380 –	19.51 –
7195 –	41.70 –				

FOR EUROPE:

English: kc/s
19.30–20.00 6210, 9254
21.00–21.30 9570, 11937
22.30–23.00 155, 9570, 11937

French:
18.30–19.00 9570, 11937
20.30–21.00 9570, 11937
22.00–22.30 9570, 11937

German:
18.00–18.30 755, 6210, 9254
19.00–19.30 9570, 11937
21.00–21.30 755
22.00–22.30 155, 6210, 9254

Greek:
17.00–17.30 6210, 7195, 9254, 9570, 11937
19.30–20.00 755
21.00–21.30 6210, 9254
21.30–22.00 755

Italian:
17.30–18.00 6210, 9254
18.30–19.00 6210, 9254
20.00–20.30 755, 6210, 9254, 9570, 11937
20.30–21.00 755
22.00–22.30 755

Rumanian[1]):
21.30–22.00 6210, 9254
22.30–23.00 755, 6210, 9254

Serbian
17.00–17.30 755
19.00–19.30 755

Spanish:
20.30–21.00 6210, 9254
21.30–22.00 9570, 11937

Concerts:
16.00–16.30[2]) 6210, 7195, 9254 9570, 11937
21.30–22.00[3]) 6210, 9254
22.30–23.00[4])[5]) 755, 6210, 9254

[1]) Sun./Mo./Thurs./Fri.
[2]) Ann. in French/English.
[3]) Ann. in Rumanian (Tues./Wed./Sat.).
[4]) Ann. in German (Wed./Sat.).
[5]) Ann. in Italian (Tues.).

FOR NEAR EAST:

English: kc/s
17.30–18.00 11937
19.00–19.30 6210, 9254

French:
16.30–17.00 6210, 7195, 9254, 9570, 11937

Persian:
15.30–16.00 6210, 9254, 9570, 11937
18.00–18.30 9570, 11937

Turkish:
17.30–18.00 755
19.30–20.00 9570, 11937

FOR USA:

English: kc/
01.30–03.00 6210, 7195, 9254, 11810, 11937, 15380

04.30–05.00 6210, 7195, 9254, 11810, 11937, 15250, 15380

Jewish:
01.00–01.30 6210, 7195, 9254, 11810, 11937, 15380

Rumanian:
23.15–23.56[6]) 6210, 9254, 11937
03.30–03.57 6210, 7195, 9254, 11810, 11937,
15250, 15380

[6]) incl. concerts with ann. in Rumanian.

FOR SO. AMERICA:

Spanish:	kc/s
00.00–01.00	6210, 7195, 9254, 11810, 11937, 15380
03.00–03.30 / 04.00–04.30	6210, 7195, 9254, 11810, 11937, 15250, 15380

See last minute information last page.

ANN.: Rumanian: "Aici Bucuresti. Aici Bucuresti asdultati emisiunea in bennile de... metri, respectiv... kilocicli". – **English:** For Europe: "This is Bucharest calling in the... meter bands, that is... kilocycles, with today's first (second) broadcast in English". – For USA: "This is Bucharest calling North America in the... meter band, that is... kilocycles, with today's first (second) broadcast in English". – For Orient: "This is Bucharest calling the Near and Middle East in the... meter band, that is... kilocycles". – **French:** "Ici Bucarest. Ici Bucarest dans les bandes de... mètres. Bonsoir, chères auditrices, bonsoir, chers auditeurs". – **German:** "Hier ist der Rumänische Rund- und Fernsehfunk mit der Sendung in deutscher Sprache. Sie hören uns auf Kurzwelle... gleich... kHz... und auf Mittelwelle...". – **Italian:** "Parla Bucarest. E' Bucarest che vi parla nella sua prima (secunda) trasmissione della giornata, su onde corte di metri... Amici ascoltatori, buona sera". – **Spanish:** "Habla Bucarest. Muy buenos noches, estimados oyentes. Comienza su primera (segunda) emisión en lengua española por campos de onda de... metros... kilociclos respectivamente".

INT.-SIG.:

V. by QSL-card or letter.
PUB.: Weekly "Programul de Radio". Free upon request.

★ SPAIN ★

L.T.: GMT+1 h. – **Pr.L.:** Spanish. – **Po.:** 29.203.000. – **Revrs.:** 2.500.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

RADIO NACIONAL DE ESPAÑA (Go.)

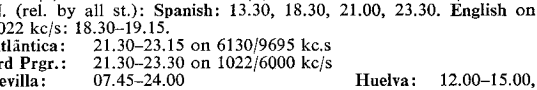
ADDR.: Paseo de la Castellana, no. 42, Madrid.
L.P.: Dir. Gen.: D. J. M. Revuelta Prieto. Dir. Prgr.: D. D. Porres Gil. Dir. Adm.: D. M. M. Pubul. Dir. Tec. Section: D. J. Sanchez-Cordo-ves. Dir. Pub. Rel.: D. J. de Aguilera Gamoneda.

HOME SERVICE:

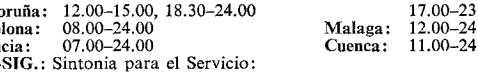
	kc/s	m	kW		kc/s	m	kW
Madrid	584	513.7	120	Huelva	850	352.9	5
Madrid-Local	1022	293.0	100	Malaga	1007	298.0	6
Sevilla	638	470.5	5	Cuenca	1178	254.7	5
La Coruña	692	434.0	2.5	Madrid	6000	50.00	50
Barcelona	737	407.1	25	Malaga	6175	48.58	2
Valencia	773	388.1	5				

FM: 93 mc/s 3 kW (Madrid) – 98 mc/s 1 kW (Barcelona)
Madrid:
Morning prgr.: 04.00–07.00 on 584 kc/s – **1. Prgr.:** 07.00–12.00 on 584 kc/s, 07.30–11.30 on 6000 kc/s – **Nat. Prgr.:** 12.00–24.00 on 584 kc/s, 12.00–21.15 on 1022 kc/s, 12.00–16.55 on 6000 kc/s.
N. (rel. by all st.): **Spanish:** 13.30, 18.30, 21.00, 23.30. **English** on 1022 kc/s: 18.30–19.15.
Atlántica: 21.30–23.15 on 6130/9695 kc.s
3rd Prgr.: 21.30–23.30 on 1022/6000 kc/s
Sevilla: 07.45–24.00
La Coruña: 12.00–15.00, 18.30–24.00
Barcelona: 08.00–24.00
Valencia: 07.00–24.00
Huelva: 12.00–15.00, 17.00–23.00
Malaga: 12.00–24.00
Cuenca: 11.00–24.00

INT.-SIG.: Sintonia para el Servicio:



Señal de pause:



ANN.: "Transmite Radio Nacional de España desde sus estudios en Madrid".

FOREIGN SERVICE

Madrid-Arganda: 100 kW exc.* 50 kW.

6130 kc/s	48.94 m	9585 kc/s	31.30 m	9695 kc/s	30.94 m
7100 –	42.25 –	9605 –	31.23 –	11815 –	25.39 –
*9360 –	32.05 –	9677 –	31.00 –	15420 –	19.45 –
9370 –	32.02 –				

EUROPEAN SERVICE:
16.30–20.10 on 7100/9360 kc/s:
Albanian 17.45–18.00 – **Bielorussian** 17.30–17.45 – **Bulgarian** 18.15–18.30 – **Croatian** 17.15–17.30 – **Czech** 16.45–17.00 – **Estonian** 18.00–18.15 – **Hungarian** 19.00–19.20 – **Latvian** 17.15–17.30 – **Lithuanian** 18.30–18.45 – **Polish** 19.40–20.10 – **Rumanian** 19.20–19.40 – **Slovak** 18.45–19.00 – **Ukrainian** 16.30–16.45.
20.20–22.00 on 6130/7100/9585 kc/s:
English 20.20–20.50 – **French** 20.50–21.20 – **German** 21.20–21.40 – **Italian:** 21.40–22.00.
"Buenas Noches Europa, Aqui es Madrid": Sat. 23.30–01.00 on 6000 kc. – **N. and Music in Spanish** (23.30), **French** (23.45), **English** (00.00), **Italian** (00.15), **German** (00.30).

OVERSEAS SERVICE:

		m.b.			m.b.
Arabic:	13.30–14.00	19	**Portug.:**	5) 22.15–22.45	32–31
	1) 14.00–14.45	6130kc			–25
	19.30–20.00	31	**Spanish:**	6) 11.00–11.45	25–19
Chinese:	11.45–12.15	25–19		7) 11.30–12.00	293–50
English:	2) 03.15–04.00	49–31		8) 12.15–12.30	25–19
	3) 04.15–05.00	49–31		1) 12.30–13.14	6130kc
	4) 05.15–06.00	49–31		9) 15.45–16.20	31
French:	1) 13.15–13.59	6130kc		10) 22.45–23.57	32–31
				11) 23.57–02.5732	–31–25

1) Morocco. 2) USA East Coast. 3) USA West Coast. 4) USA all states. 5) Brazil. 6) Philippines. 7) Spaniards living abroad. 8) Missionaries in the East. 9) Guinea & W. Africa. 10) Spaniards living in America. 11) Latin America.
ANN.: E.: "This is the voice of Spain broadcasting from the Spanish National Radio in Madrid".
INT.-SIG.: Gong and the following tune:

V. by QSL-card or letter. – **PUB.:** Teleradio (weekly).

RED DE EMISORAS DEL MOVIMIENTO (R.E.M.)

(Broadcasting system of the Phalanx)
The Red de Emisoras del Movimiento belong to the National Delegation of Press, Propaganda and Radio. **L.P.:** N.Delegate.: Jesús F. Fueyo
ADDR.: Red de Emisoras del Movimiento, Ayala, No. 15 Madrid.
L.P.: National Delegate: Jesus F. Fueyo. Dir.: R.E.M. Teodoro Delgado, Chief Eng.: M. Vázquez. Progr. and Prod.: R. Deglané. Coordination: J. Jiménez.
Main Station: EFE 14 »La Voz de Madrid« – **L.P.:** Dir.: Teodoro Delgado. Chief Tec.: G. Cabañas. Prgr.: M. Rojas. Prod.: C. Barber. Adm.: A. Martin.

STATIONS:

Call EFE...	Name	kc/s	m	kW	Hours of tr.
1.	La Voz de Valladolid	1276	235	1	10.00–24.00
2.	R. Teruel	1480	203	2	11.00–14.30, 19.00–23.30
4.	R. Palencia	1358	220.9	1	11.00–23.00
5.	La Voz de León	1250	240	1.5	09.00–24.00
6.	Radio Cáceres	1079	278.3	1	10.00–16.00, 17.00–24.00
7.	Radio Denia	1403	213	0.4	11.30–15.00, 18.00–22.00
8.	La Voz de Alicante	1358	220.9	2	08.00–23.30
9.	R. Villafranca P.	1079	278	1	12.00–14.00, 19.00–22.00
10.	Radio Alava	1385	217	0.2	09.00–15.00, 17.00–23.00
11.	Radio Utiel	1358	220	0.19	11.30–15.00, 19.00–23.00
12.	R. Monovar	1575	190.6	0.05	11.00–16.00, 18.00–23.00
13.	Radio Sagunto	1440	208.5	1	10.00–15.00, 18.00–23.00
14.	La Voz de Madrid	1223	245.3	20	07.00–24.00
15.	Radio Ferrol	1358	220.9	0.8	10.00–15.00, 18.00–23.30
16.	Radio Puigcerdá	1079	278	1	11.00–14.30, 17.00–21.30
17.	La Voz de Levante	1079	278	5	07.00–24.00
18.	Radio Játiva	1358	220.9	0.5	10.00–15.00, 18.00–23.00
20.	Radio Ripoll	1480	202.7	0.07	20.00–22.00, Sun. 11.00–22.00
21.	Radio Cazorla	1358	220.9	0.3	12.00–16.00, 19.00–23.00
22.	Radio Oviedo	1408	213	5	09.00–23.30
23.	La Voz de Guipúzcoa	1304	230	5	06.30–24.00
24.	Radio Orihuela	1079	278	0.2	11.00–15.00, 17.00–24.00
25.	Radio Cantabria	1358	220	0.8	09.00–24.00
26.	Radio Luarca	1428	210	0.4	10.30–15.00, 18.30–21.00
27.	Radio Maresma	1480	203	0.3	11.00–15.00, 18.00–22.30
28.	Radio Tortosa	1250	240	0.9	09.00–15.00, 18.00–22.00
29.	Radio Tudela	1480	202.7	2	10.00–15.00, 19.00–23.00
31.	La Voz de Vigo	1079	278	5	07.00–24.00
32.	Radio Avila	1470	204	0.8	08.30–15.30
33.	Radio Tarragona	1570	191.1	0.05	09.00–15.00, 18.00–23.00
34.	Radio Atlántico	1480	203.4	2	07.00–14.30, 17.00–23.00
35.	Radio Tárrega	1480	202.7	0.37	11.00–15.30, 19,00–23.00
38.	Radio Badajoz	1390	215.8	5	07.30–10.30. 18.00–23.30

RADIO NACIONAL DE ESPAÑA

HABLA PARA EL MUNDO

HORAS IN GMT

En chino:	De 11.45 a 12.15, por 25 y 19 metros.
En árabe:	De 13.30 a 14.00 horas, por 19 metros. (Para Marrueco): De 14.00 a 14.45 horas, por 49 metros. De 19.30 a 20.00 horas, por 31 metros.
En ucraniano:	De 16.30 a 16.45 horas, por 42 y 32 metros.
En checo:	De 16.45 a 17.00 horas, por 42 y 32 metros.
En croata:	De 17.15 a 17.30 horas, por 42 y 32 metros.
En léton:	De 17.00 a 17.15 horas, por 42 y 32 metros.
En ruso:	De 17.30 a 17.45 horas, por 42 y 32 metros.
En albano:	De 17.45 a 18.00 horas, por 32 y 42 metros.
En estoniano:	De 18.00 a 18.15 horas, por 42 y 32 metros.
En búlgaro:	De 18.15 a 18.30 horas, por 42 y 32 metros.
En lituano:	De 18.30 a 18.45 horas, por 42 y 32 metros.
En eslovaco:	De 18.45 a 19.00 horas, por 42 y 32 metros.
En rumano:	De 19.20 a 19.40 horas, por 42 y 32 metros.
En húngaro:	De 19.00 a 19.20 horas, por 42 y 32 metros.
En polaco:	De 19.40 a 20.10 horas, por 42 y 32 metros
En inglés:	(Para Inglaterra): De 20.20 a 20.50 horas, por 32, 42 y 49 metros. (Para estado Unidos. Costa Atlántica): De 03.15 a 04.00 horas, por 32 y 49 metros. (Para Estados Unidos. Costa Pacifico): De 04.15 a 05.00 horas, por 32 y 49 metros. (Para Estados Unidos. General para los Estados): De 05.15 a 06.00 horas, por 32 y 49 metros.
En francés:	De 20.50 a 21.20 horas, por 32, 42 y 49 metros. (Para Marrueco): 13.15 a 13.59 horas, por 49 metros.
En alemán:	De 21.20 a 21.40 horas, por 32, 42 y 49 metros.
En italiano:	De 21.40 a 22.00 horas, por 32, 42 y 49 metros.
En portugués:	(Para Brasil): De 22.15 a 22.45, por 32 y 25 metros.
En español:	(Para Hispanoamérica): De 23.57 a 02.57 horas, por 32, 31 y 25 metros. (Para españoles residentes en América): De 22.45 a 23.57 horas, por 32 y 31 metros. (Para Filipinas): De 11.00 a 11.45 horas, por 25 y 19 metros. (Para los españoles residentes en el extranjero): De 11.30 a 12.00 horas, por 50 y 293 metros. (Para Marrueco): 12.30 a 13.14 horas, por 49 metros. (Atlantica): De 21.30 a 23.15, por 31 y 48,93 metros. (Para los Misioneros en Oriente): De 12.15 a 12.30 horas, por 25 y 19 metros.

Treienta y cuatro servicios informativos, en veinte idiomas, llevan asi a todos los paises LA VOZ DE ESPAÑA.

RADIO NACIONAL DE ESPAÑA

SPEAKS TO THE WORLD

TIMES IN GMT

In Chinese:	From 11.45 to 12.15 on 25 and 19 m.
In Arabic:	From 13.30 to 14.00 on 19 m. (to Morocco): From 14.00 to 14.45 on 49 m. From 19.30 to 20.00 on 31 m.
In Ukrainian:	From 16.30 to 16.45 on 42 and 32 m.
In Czech:	From 16.45 to 17.00 on 42 and 32 m.
In Croatian:	From 17.15 to 17.30 on 42 and 32 m.
In Latvian:	From 17.00 to 17.15 on 42 and 32 m.
In Russian:	From 17.30 to 17.45 on 42 and 32 m.
In Albanian:	From 17.45 to 18.00 on 32 and 42 m.
In Estonian:	From 18.00 to 18.15 on 42 and 32 m.
In Bulgarian:	From 18.15 to 18.30 on 42 and 32 m.
In Lithuanian:	From 18.30 to 18.45 on 42 and 32 m.
In Slovak:	From 18.45 to 19.00 on 42 and 32 m.
In Rumanian:	From 19.20 to 19.40 on 42 and 32 m.
In Polish:	From 19.00 to 20.20 on 42 and 32 m.
In English:	(to Gt. Britain): From 20.20 to 20.50 on 32, 42 and 49 m. (to USA, Atlantic Coast): From 03.15 to 04.00 on 32 and 49 m. (to USA, Pacific Coast): From 04.15 to 05.00 on 32 and 49 m. (to USA all States): From 05.15 to 06.00 on 32 and 49 m.
In French:	From 20.50 to 21.20 on 32, 42 and 49 m. (to Morocco): 13.15 to 13.59 on 49 m.
In German:	From 21.20 to 21.40 on 32, 42 and 49 m.
In Italian:	From 21.40 to 22.00 on 32, 42 and 49 m.
In Portuguese:	(to Brazil): From 22.15 to 22.45 on 32 and 25 m.
In Spanish:	(to Latin America): From 23.57 to 02.57 on 32, 31 and 25 m. (to Spaniards living in America): From 22.45 to 23.57 on 32 and 31 m. (to Philippines): From 11.00 to 11.45 on 25 and 19 m. (to Spaniards living abroad): From 11.30 to 12.00 on 50 and 293 m. (to Morocco): 12.30 to 13.14 on 49 m. (Atlantic): From 21.30 to 23.15 on 31 and 48,93 m. (to Missionaries in the East): From 12.15 to 12.30 on 25 and 19 m.

THE VOICE OF SPAIN brings thirtyfour informatory broadcasts in twenty languages to all countries.

Call EFE...	Name	kc/s	m	kW	Hours of tr.
39.	Radio Berga	1385	216.6	0.45	11.00–15.00, 18.00–22.00
40.	La Voz de la Costa Brava	1250	240	0.35	11.00–16.00, 19.00–23.00
41.	Radio Olot	1250	240	0.2	11.00–15.00, 18.00–22.00
42.	Radio Sueca	1358	220.9	0.5	11.00–15.00, 18.30–23.00
43.	Radio Requena	1480	202.7	0.5	12.00–15.00, 20.00–23.00
45.	La Voz de Granada	1480	202.7	2	09.00–15.00, 18.00–20.00
46.	Radio Guadasuar	1358	221	0.1	11.30–14.00, 19.00–23.00
47.	Radio Cullera	1358	221	0.2	12.00–15.00, 19.00–23.00
48.	Radio Carlet	1480	202	0.4	11.30–14.30, 18.30–22.30
49.	Radio Chelva	1385	216.6	0.06	12.00–14.00, 20.00–22.00
50.	La Voz de Cataluña	1385	216.6	0.9	07.00–24.00
51.	Radio Mora de Ebro	1385	216.6	0.04	11.00–15.00, 19.00–23.00
52.	Radio Vendrell	1385	216.6	0.04	11.30–14.30, 19.00–22.30
53.	Radio Roda de Ter	1480	203.4	0.02	12.00–14.00, 19.00–22.00
54.	Radio Cardona	1500	200	0.04	18.00–21.00
55.	Radio Vich	1550	193.5	0.6	11.00–23.00
56.	Radio Blanes	1079	278	0.2	11.30–15.00, 19.00–22.00
57.	La Voz de Navarra	1358	221	5	09.00–16.00, 19.00–23.00
59.	Radio Manises	1151	260.6	0.3	11.00–23.00
61.	Radio Adra	1518	197.6	0.06	12.30–15.00, 20.30–22.00

Main Station EFE-14 "La Voz de Madrid":
Dir.: Teodoro Delgado. Chief Tec.: Sr. G. Cabañas. Progr.: M. Rojas. Prod.: C. Barber. Adm.: J. L. Alcalá.
Directors: EFE-1 D. Antolin Santiago – EFE-4 D. Enrique González – EFE-5 D. José Luis Pérez Pereletegui – EFE-6 D. Antonio Muñoz Gras – EFE-8 D. José Luis Ferrer Pérez – EFE-14 D. Teodore Delgado Pomata – EFE-15 D. José María López Ramón – EFE-17 D. Vicente Beta Frígola – EFE-22 D. Julio del Caño Herreras – EFE-23 D. Antonio García Maylin – EFE-25 D. Santiago Basoa Barañano – EFE-31 D. Luciano Rodriguez Gómez – EFE-33 D. José Maria Tarrasa Alvira – EFE-50 D. Joaquín J. Sauriná y Fiol – EFE-57 D. José María Pérez Salazar.
The addresses of the stations: See the advertisement.
ANN.: "EFE... La Voz de..." or "Radio... de la Red de Emisoras del Movimiento". – **V.** by letter.

CADENA AZUL DE RADIODIFUSION

(Delegación Nacional de Juventudes)
Organization: For the educational work of Radio in Spain and for training of people engaged with Radio. – **L.P.:** Dir. of the Service: Dir. General: Jaime Suaréz A.
ADDR.: Diego de Leon 47, Madrid.
SCHOOL-STATIONS: A network of 60 school-stations used for ordinary broadcasting and for a three years training of professionals for Radio (speakers, actors, lecturers, engineers, programme controllers, organizers, directors).
STATIONS:

Call	kc/s	m	kW	Name of Station
EFJ1	1106	271.8	2	R. Juventud de España
EFJ2	1187	252	2	– – Soria
EFJ5	1187	252	2	– – Cádiz
EFJ6	1187	252	0.1	– – Almansa
EFJ8	1187	252	0.4	– – Ribadavia
EFJ9	1250	240	0.8	– – Guadalajara
EFJ10	1106	271.8	0.8	– – Algemesí
EFJ11	1106	271.8	0.8	– – La Coruña
EFJ12	1106	271.8	0.8	– – Sabadell
EFJ15	1250	240	2	– – Barcelona
EFJ16	1106	271.8	2	– – Mérida
EFJ17	1250	240	0.08	– – Ayora
EFJ19	1106	271.8	2	– – Murcia
EFJ22	1187	252	2	– – Menorca
EFJ23	1187	252	2	– – Albacete
EFJ25	1187	252	2	– – Almería
EFJ28	1250	240	0.8	– – Baza
EFJ31	1250	240	2	– – Balaguer
EFJ33	1250	240	0.4	– – Villena
EFJ35	1187	252	2	– – Burjasot
EFJ43	1250	240	2	– – Vizcaya
EFJ46	1106	271.8	2	– – Zaragoza
EFJ51	1106	271.8	0.8	– – Ayamonte
EFJ55	1187	252	0.8	– – Campo de Gibraltar
EFJ56	1106	271.8	2	– – Málaga
EFJ59	1106	271.8	0.08	– – Ciudad Rodrigo

+34 low power stations less 0.5 kW.
D. PRGR.: consist of cultural and educational prgrs., information service about the youth-work, actualities and entertainment.
ANN.: "Habla RADIO JUVENTUD DE..... Estacion Escuela no. ... de la Cadena Azul de Radiodifusion".
SINTONIA: "Se acompaña musica". – **INT.-SIG.:** Two notes of trumpet.
PUBLICATIONS: "Cine – Radio – Television", monthly, 100 pages.

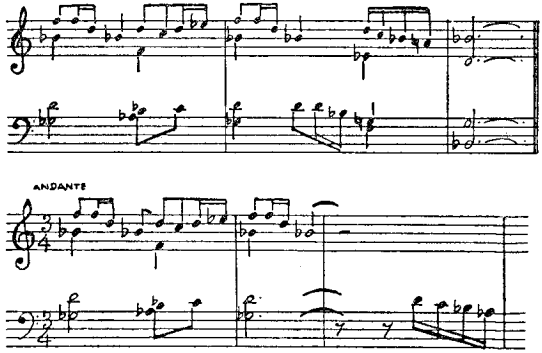
SOCIEDAD ESPANOLA DE RADIODIFUSION (Comm.)

ADDR.: Av. de José Antonio 32, Apt. 745, Madrid.
Cable: SER. – **L.P.:** Pres.: A. Garrigues y Diaz Cañabate. Dir. Gen.: V. Oñate Sánchez. Dir. Tec.: F. Martinez Gonzáles. Dir. Prgr.: M. Aznar. Dir. Adm.: P. Estaun Ipiens. Dir. Transm.: M. Rodriguez Cano. Dir. Inf.: Srta M. Josefa Rubio.

STATIONS:	Call	kc/s	m	kW	h. of tr.
R. Madrid	EAJ7	683	439.2	20	07.00–24.00
R. Barcelona	EAJ1	809	370.8	10	06.15–24.00
R. Valencia	EAJ3	1259	238.3	5	07.00–24.00
R. Galicia[1]	EAJ4	1448	207.2	2	12.30–23.00
R. Sevilla	EAJ5	800	375.0	5	07.30–24.00
R. Requetede Navarra (Pamplona)	EAJ6	1492	201.1	0.5	10.00–17.30, 19.30–24.00
R. S. Sebastian	EAJ8	1025	292.7	5	08.00–23.30
R. Reus	EAJ11	1412	212.5	2	11.00–23.30
R. Asturias (Oviedo)	EAJ19	1268	236.6	2	10.00–24.00
R. Bilbao	EAJ28	1133	264.8	2	09.00–23.30
R. Alicante	EAJ31	1448	207.2	2	10.00–23.30
R. Alcira	EAJ54	1493	200.9	2	09.00–23.30
R. Mediterraneo, Valencia		6995	42.89	1	11.00–15.00, 18.00–23.30
ASSOCIATED STATIONS:					
R. Tánger		1079	278.0	10	08.00–22.30
R. Mallorca	EAJ13	1430	209.8	5	11.00–15.00, 17.00–23.00
R. Castellon	EAJ14	1502	199.7	2	11.00–15.00, 17.00–23.00
R. Granada	EAJ16	1448	207.2	2	08.00–24.00
R. Murcia	EAJ17	1511	198.5	2	08.00–24.00
R. Rioja (Logroño)	EAJ18	1487	202.1	2	11.00–15.00, 18.00–23.00
R. Huesca	EAJ22	1475	203.4	2	12.00–15.00, 19.00–23.00
R. Gandia	EAJ23	1412	212.5	2	10.00–16.00, 18.00–23.00
R. Castilla (Burgos)	EAJ27	1448	207.2	2	12.30–15.00, 19.00–23.00
R. Santander	EAJ32	1484	202.2	2	11.00–23.00
R. Gijón	EAJ34	1492	201.1	2	10.00–16.00, 18.00–23.00
R. Pontevedra	EAJ40	1493	200.9	2	12.00–15.30, 19.30–23.00
R. Coruña	EAJ41	1295	231.7	2	13.00–23.00
R. Albacete	EAJ44	1493	200.9	2	09.00–23.00
R. Valladolid	EAJ47	1475	203.4	2	11.30–23.30
R. Vigo	EAJ48	1403	214	2	09.00–15.00, 18.00–23.00
R. Las Palmas	EAJ50	1313	228.5	2	10.30–23.30
R. Extremadura[2]	EAJ52	1484	202.2	2	11.00–23.00
R. Salamanca	EAJ56	1331	225.4	2	12.00–23.00
R. Jerez[3]	EAJ58	1492	201.1	2	12.00–15.00, 17.00–23.00
R. Almeria	EAJ60	1420	211	1	10.00–24.00
R. Jaen	EAJ61	1450	207	2	12.00–15.00, 17.30–23.00
R. Vitoria	EAJ62	1385	216.6	2	09.00–23.00
R. Leon	EAJ63	1502	199.7	2	11.00–15.30, 19.00–23.00
R. Segovia	EAJ64	1502	199.7	2	12.00–15.00, 19.00–23.00
R. Ciudad Real	EAJ65	1493	200.9	2	17.30–23.00
R. Zamora	EAJ72	1375	218	2	12.00–23.00
R. Zaragoza	EAJ101	872	344	30	09.00–15.00, 17.00–24.00

[1]) Santiago Compostela. [2]) Bajadoz. [3]) Jerez de la Frontera.

NATIONAL SERVICE:
The prgrs. of Sociedad Española are rel. simultaneously by all st. at the following hours: 19.00–19.30 (Mo.-Fri.), 20.00–22.00 (Tues.-Sat.), 21.30–22.20 (Tues., Thurs., Fri.), 18.30–19.30 (Sun.).
ANN.: National Service: "Transmite la Sociedad Española de Radiodifusión a través de su gran cadena de 38 emisoras". – **Sociedad Espanola de Radiodifusion:** "Transmite EAJ, Radio... de la Sociedad Española de Radiodifusion". – **INT.-SIG.** for Home Sce.:



V. by letter. – **PUB.:** "ONDAS" fortnightly.

RED DE EMISORAS DEL MOVIMIENTO (R. E. M.)

ADDRESS: Ayala 15 – MADRID – SPAIN

EMISORA CENTRAL

EFE 14, LA VOZ DE MADRID

EFE 23 La Voz de Guipúzcoa
Victor Pradera, 12. – San Sebastián.

EFE 22 Radio Oviedo
Asturias, 9. – Oviedo.

EFE 26 Radio Luarca
Luarca (Asturias).

EFE 31 La Voz de Vigo
Avda. Garcia Barbón, 3. Vigo (Pontevedra)

EFE 25 Radio Cantabria
Pasaje del Arcillero, 2. Santander.

EFE 4 Radio Palencia
Becerro de Bengoa s/n. Palencia.

EFE 57 La Voz de Navarra
Navarro Villoslada, 17.
Pamplona.

EFE 29 Radio Tudela (E.S.)
Eza, 5. Tudela (Navarra)

EFE 10 Radio Alava
Calvo Sotelo, 34. Vitoria.

EFE 5 La Voz de León
Ordoño II, 28. León.

EFE 1 La Voz de Valladolid
Angustias, 1. Valladolid.

EFE 32 Radio Avila (E.S.)
Vallespín, 14. Avila

EFE 33 Radio Tarragona
Hermanos Landa, 21. Tarragona

EFE 51 Radio Mora de Ebro.
Valle, 9. Mora de Ebro (Tarragona).

EFE 52 Radio Vendrell
San Magín, 5. Vendrell (Tarragona).

EFE 28 Radio Tortosa
Teodoro Gonzalez, 4. (Tortosa Tarragona)

EFE 50 La Voz de Cataluña
Córcega 291. Barcelona

EFE 9 Radio Villafranca del Panadés
Plaza. Generalisimo, 13. Villafranca del Panades (Barcelona).

EFE 39 Radio Berga.
Plaza. San Pedro, 9. Berga (Barcelona).

EFE 54 Radio Cardona.
Plaza. Generalisimo, 5. Cardona (Barcelona).

EFE 27 Radio Maresma de Mataró (E.S.)
Generalísimo, 45. Mataró (Barcelona)

EFE 16 Radio Puigcerdá.
Plaza Mayor, 19. Puigcerdá (Gerona).

EFE 20 Radio Ripoll (E.S.)
Plaza del Caudillo, 5. Ripoll (Gerona)

EFE 40 La Voz de la Costa Brava.
Ave María, 3. Palamós (Gerona).

EFE 41 Radio Olot
Plaza del Carmen. Olot (Gerona)

EFE 53 Radio Roda de Ter.
Bach, 43. Roda de Ter (Barcelona).

EFE 55 Radio Vich
San Antonio, 4. Vich (Barcelona).

EFE 56 Radio Blanes.
Mercaderes, 4. Blanes (Gerona).

EFE 35 Radio Tárrega (E.S.)
Avda de Cataluña, 17. Tárrega (Lérida)

EFE 62 La Voz de Burriana
Ayuntamiento-Burriana (Castellón)

EFE 17 La Voz de Levante
Pascual y Genís, 27. Valencia.

EFE 11 Radio Utiel.
Alamos, 4. Utiel (Valencia).

EFE 13 Radio Sagunto.
Comandante Padín Arnaiz, 7. Sagunto (Valencia).

EFE 18 Radio Játiva.
Moncada, 14. Játiva (Valencia).

EFE 42 Radio Sueca.
Plaza de los Reyes Católicos, 9. Sueca (Valencia).

EFE 43 Radio Requena.
Villajoyosa, 3. Requena (Valencia).

EFE 15 Radio Ferrol
José Antonio, 75. El Ferrol del Caudillo (La Coruña).

EFE 44 Radio Picasent.
Santa Ana, 11. Picasent (Valencia)

EFE 46 Radio Guadasuar.
Santa Lucía, 11. Guadasuar (Valencia).

EFE 47 Radio Cullera.
Doctor Alemany, 6. Cullera (Valencia).

EFE 48 Radio Carlet.
Maestro Martínez, 5. Carlet (Valencia).

EFE 49 Radio Chelva.
Clavel, 18. Chelva (Valencia)

EFE 59 Radio Manises.
Valencia, 4. Manises (Valencia).

EFE 2 Radio Teruel (E.S.)
Plaza de General Mola, 11. Teruel.

EFE 8 La Voz de Alicante.
Angel Lozano, 14. Alicante.

EFE 7 Radio Denia.
Marqués del Campo, 23.
Denia (Alicante).

EFE 12 Radio Monovar.
Mayor, 129. Monevar (Alicante).

EFE 24 Radio Orihuela.
Ramón y Cajal, 38. Orihuela (Alicante).

EFE 38 Radio Badajoz (E.S.)
Cardenal Carvajal, 2. Badajoz.

EFE 6 Radio Cáceres.
General – Primo de Rivera, 1.
Cáceres

EFE 45 La Voz de Granada (E.S.)
Recogidas, 9. Granada.

EFE 21 Radio Cazorla (E.S.)
Gómez Calderón. Cazorla (Jaén).

EFE 61 Radio Adra.
Adra (Almería).

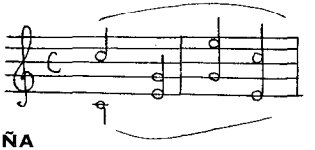
EFE 34 Radio Atlántico
Buenos Aires 26
Las Palmas de Gran Canaria

COMPANIA DE RADIODIFUSION INTERCONTINENTAL (Comm.)
ADDR.: R. Intercontinental, Diego de Leon, 50, Madrid. – **Cable:** "Ondatlantic".
HOME SERVICE: EAJ29 953 kc/s 314.8 m 20 kW: 09.00–02.00.

AFFILIATED STATIONS:

Name	kc/s	m	kW	Name	kc/s	m	kW
R. Alcoy	1490	201	0.8	R. Melilla	1492	201	0.2
R. Algeciras	1500	200	0.2	R. Onteniente	1500	209	0.5
R. Alicantev	7940	37.78	1.2	R. Orense	1492	200	0.2
R. Almeria	1493	201	0.2	R. Asturiasv	1258	238	0.35
R. Cadiz	1495	201	0.2	R. Andorra	998	301	60
R. Cordoba	1447	207	0.2	R. Andorra o.c.	5972	50.22	25
R. Huelvav	850	352	2	R. Africa	935	321.0	15
R. Lérida	1492	201	0.2	R. Renascenea	6154	48.74	0.6
R. Linares	1492	201	0.2	R. Renascenea	1169	256.6	1
R. Lugo	1500	200	0.2	R. Elche	1519	197	0.2
R. Malaga	989	308	8	R. Leøn	1504	200.6	0.2
R. Manresa	1492	201	0.2				

ANN.: "Aqui Madrid Emisora Radio Intercontinental". – **INT.-SIG.:**



RADIO ESPAÑA
ADDR.: Manuel Silvela 9, Madrid.
HOME SCE.: Madrid EAJ2 854 kc/s 351.2 m 7.5 kW: 07.00–23.30.
ADDR.: Rambla de los Estudios 8, Barcelona.
HOME SCE.: EAJ15 1124 kc/s 266.9 m 3 kW: 12.30–23.00.

★ SWEDEN ★

L.T.: GMT + 1 h. – **Pr. L.:** Swedish. – **Po.:** 7.436.066. – **Rcvrs.:** 2.670.000. – **E.C.:** 110/127/220 V, A.C., 50 c/s; 220 V, D.C.
SVERIGES RADIO (Swedish Broadcasting Corporation) (Non comm. semi-govt. broadcasting corporation).
ADDR.: Sveriges Radio A/B, Stockholm 7. **Cable:** »Broadcasts«.
L.P.: Chairman Board of Governors: Per Eckerberg. Dir. Gen.: Olof Rydbeck. Deputy Dir.: Sven Jerring. Dir.: Henrik Hahr. Dir. Adm.: Erik Mattsson. Dir. Tec.: Johan von Utfall. Dir. Prgr.: Sound: Nils-Olof Franzén. Dir. Prgr. TV: Nils-Erik Baehrendtz. Deputy Dir. Prgr. TV: Per-Martin Hamberg. Dir. Publications Dept.: Manne Ginsburg. Dir. Music: Nils Castegren. Dir. Spoken Word, Sound: Karl-Erik Lundewall; TV: Mats Rehnberg. Dir. Drama, Sound: Palle Brunius; TV: Henrik Dyfverman. Dir. Variety Sound: Tage Danielsson; TV: Roland Eiworth. Head Overseas Prgr.: Roland Pålsson. Head Press and Information: Philip von Krusenstierna. Head External Relations: Karin Bergman; TV, prgr. exchange: Marianne Lamby.
DISTRIBUTION OF PROGRAMMES: ADDR.: The Board of Telecommunications, Stockholm 16. **Cable:** "Centel".
L.P.: Dir. Gen.: H. Sterky. Chief of Radio Division: E. Esping. Chief of Broadcasting Section: K. Ekström.

Medium Waves: STATIONS:

Station	Prgr.	kc/s	m	kW	Station	Prgr.	kc/s	m	kW
Luleå	1	182	1648	10	Göteborg	2	1484	202	0.25
Motala	1	191	1571	150	Halmstad	2	1484	202	0.15
Östersund	1	420	714	10	Jönköping	2	1484	202	0.2
Sundsvall	1	593	506	150	Karlstad	2	1484	202	0.15
Östersund	1	719	417	150	Kiruna	2	1484	202	0.15
Malmberget	1	773	388	2.0	Kristinehamn	2	1484	202	0.15
Stockholm	1	773	388	150	Ludvika	2	1484	202	0.15
Göteborg	1	980	306	150	Luleå	2	1484	202	0.15
Hörby	1	1178	255	100	Malmberget	2	1484	202	0.15
Falun	1	1223	245	100	Stockholm	2	1484	202	0.25
Eskilstuna	1	1394	215	0.5	Sundsvall	2	1484	202	0.15
Hälsingborg	1	1394	215	1.5	Trollhättan	2	1484	202	0.15
Jönköping	1	1394	215	2.0	Varberg	2	1484	202	0.15
Karlskrona	1	1394	215	1.5	Västervik	2	1484	202	0.15
Kiruna	1	1394	215	0.5	Porjus	1	1529	196	0.075
Kristinehamn	1	1394	215	0.15	Söderhamn	1	1529	196	0.06
Säffle	1	1394	215	0.15	Umeå	1	1529	196	1.5
Trollhättan	1	1394	215	2.0	Borås	1	1562	192	2.0
Umeå	2	1394	215	0.15	Halmstad	1	1562	192	2.0
Uppsala	1	1394	215	0.5	Kalmar	1	1562	192	2.0
Varberg	1	1394	215	2.0	Karlstad	1	1562	192	0.25
Visby	1	1394	215	0.5	Malmö	1	1562	192	2.0
Falkenberg	1	1448	207	0.15	Norrköping	1	1562	192	1.5
Gävle	1	1448	207	0.5	Uddevalla	1	1562	192	0.5
Hudiksvall	1	1448	207	1.5	Örebro	1	1562	192	0.5
Uddevalla	2	1448	207	0.15	Boden	2	1594	188	0.15
Västerås	1	1448	207	2.0	Hudiksvall	2	1594	188	0.15
Örnsköldsvik	1	1448	207	1.5	Mariestad	2	1594	188	0.15
Piteå	2	1594	188	0.15	Söderhamn	2	1594	188	0.15
Porjus	1	1594	188	0.075	Vänersborg	2	1594	188	0.15
Säffle	2	1594	188	0.15	Örnsköldsvik	2	1594	188	0.15

Short Waves: Hörby I, II 100 kW. *Motala 12 kW.

kc/s	m	Prgr.	kc/s	m	Prgr.	kc/s	m	Prgr.
6065	49.46	1	7270*	41.47	2	11880	25.25	1

FM:

Stations	Prgr.	mc/s	kW	Stations	Prgr.	mc/s	kW
Varberg	1	87.6	3	Varberg	2	93.6	3
Östersund	1	87.9	60	Gävle	1	93.9	15
Hörby	1	88.8	60	Nässjö	1	94.2	15
Borås	1	88.5	3	Boden	1	94.5	15
Borlänge	1	89.4	15	Borås	2	94.6	3
Norrköping	1	90.0	15	Uppsala	2	94.8	5
Uppsala	1	90.4	5	Skovde	1	95.1	15
Halmstad	1	91.2	15	Halmstad	2	95.4	15
Örebro	2	91.5	1.5	Hälsingborg	2	95.7	3
Östersund	2	91.5	60	Västerås	1	95.7	15
Bollnäs	1	91.8	15	Bollnäs	2	96.0	15
Västervik	1	91.8	25	Västervik	2	96.0	25
Göteborg	1	92.1	15	Göteborg	2	96.3	15
Hörby	2	92.4	15	Stockholm	2	96.6	60
Stockholm	1	92.4	60	Bäckefors	2	96.8	15
Hörby	2	92.4	60	Sundsvall	2	96.9	15
Bäckefors	1	92.7	15	Skövde	2	97.5	15
Sundsvall	1	92.7	15	Västerås	2	98.4	15
Hälsingborg	1	92.8	3	Gävle	2	98.7	15
Borlänge	2	93.0	15	Malmö	2	98.7	1.5
Malmö	1	93.3	3	Nässjö	2	99.0	15
Norrköping	2	93.5	15	Boden	2	99.4	15

FM-Stations ready at the end of 1959:

	Prgr.	mc/s	kW		Prgr.	mc/s	kW
Arvidsjaur	1	89.4	15	Uddevalla	1	89.1	3
Arvidsjaur	2	93.0	15	Uddevalla	2	93.1	3
Emmaboda	1	89.4	15	Örebro II	1	87.9*	60
Emmaboda	2	93.0	15	Orebro II	2	91.5*	60
Gällivare	1	90.0	60	Storuman	1	87.6	15
Gällivare	2	93.6	60	Storuman	2	91.5	15

* replacement of tr. in use.

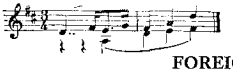
FM-Stations ready before July 1st, 1960:

	Prgr.	mc/s	kW		Prgr.	mc/s	kW
Mora	1	94.9	10	Sunne	1	90.9	60
Mora	2	97.8	10	Sunne	2	94.5	60
Pajala	1	87.9	15	Visby	1	97.2	4
Pajala	2	91.5	15	Visby	2	99.5	4
Sollefteå	1	93.3	15	Vännäs	1	88.5	60
Sollefteå	2	98.1	15	Vännäs	2	92.1	60

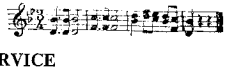
HOME SERVICE

FIRST PRGR.: W. 05.00–22.00 (approx). Sun. 06.20–22.00 (approx). The following long and medium wave stations are generally the most reliable for listeners in Europe: Motala 150 kW, 191 kc/s and Hörby 100 kW, 1178 kc/s.
SHORT WAVES:
05.00–09.00, 17.45–21.30 6065 kc/s. – 09.00–12.15 11880 kc/s. – **N.:** 05.30 (W), 07.00, 11.30, 18.00, 21.15. – **Wrp.:** 05.40 (W), 07.10, 11.40, 17.55, 21.25. – **Weather Forecast for Swedish Waters:** 16.53. – **Bells of the Town Hall in Stockholm:** W. 11.00.
SECOND PRGR.: 16.00–21.15. – **N.:** 16.00, 16.55, 20.00.
ANN.: (Nat. Prgr.): "Sveriges Radio..." and the name of the transmitting station. For instance: "Sveriges Radio, Stockholm".
INT.-SIG.: Home Service 1st Prgr.: The opening notes from Carl Michael Bellmann's "Storm och böljor tystna re'n" and 2nd Prgr.: From Bellmann's "Fredmans Epistel No. 64: "Fäll dine ögon skäms nu din tossa".

Home Service 1st Prgr.:



Home Service 2nd Prgr.:



FOREIGN SERVICE

STATIONS: Hörby – 100 kW.

kc/s	m	kc/s	m	kc/s	m
1178	254.7	9620	31.19	11880	25.25
6065	49.46	11705	25.63	15240	19.69
7210	41.61	11810	25.40	17840	16.82

EUROPEAN SERVICE:

English:		German:	
20.30–21.00	7210	21.30–22.00	6065
00.00–00.30	1178	23.00–23.30	1178
French:		**Portuguese:**	
22.00–22.30	6065	22.00–22.45	11705
23.30–24.00	1178	**Spanish:**	
		21.15–21.45	11705

OVERSEAS SERVICE:
Periods: 1 per. Nov., Dec., Jan., Febr. – 2 per. March, April. – 3 per. May-August. – 4 per. Sept., Oct.

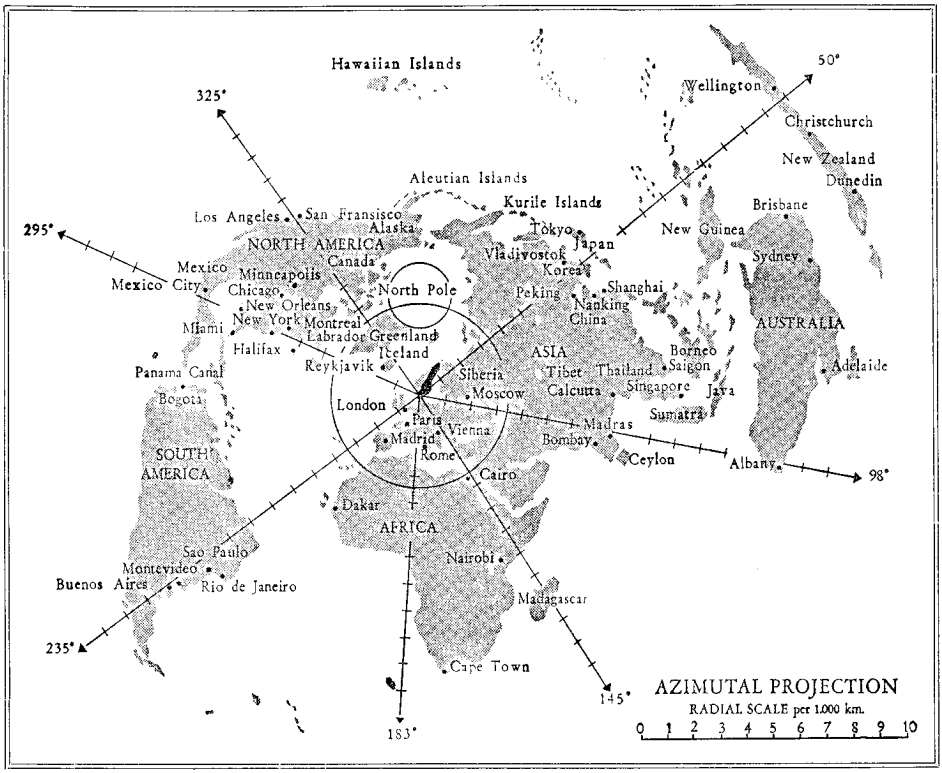
'THIS IS RADIO SWEDEN'

calling the world
in six languages daily:

ENGLISH · FRENCH · GERMAN
SPANISH · PORTUGUESE · SWEDISH

and bringing News, Music and
Feature Programmes over
Radio Sweden's 100 kW transmitters.

The transcription service *offers a wide range of recorded programmes about Sweden.*



See p. 89 for schedules.

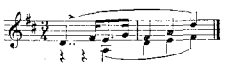
Service	h. of tr.	L.	1.per. kc/s	2.per. kc/s	3.per. kc/s	4.per. kc/s
W. No.A.	02.30–03.15	Swedish	9620	11810	11810	11810
	03.15–03.45	English				
Ea. No. Am.	14.00–14.30	English	17840	17840	17840	17840
	01.00–01.45	Swedish	11810	11810	11810	11810
	01.45–02.15	English				
Mex.-C. Am.	04.00–04.45	Spanish	11810	11810	11810	11810
So.Am.	23.00–23.45	Spanish	9620	11705	11705	11705
	23.45–00.30	Portugs.	11705	15240	15240	15240
	01.00 01.45	Swedish	11705	11705	11705	11705
	01.45–02.30	Portugs.				
	02.30–03.15	Spanish				
Africa	17.45–18.15	English	15240	15240	15240	15240
	18.15–19.00	Swedish				
	19.15–19.45	French	11705	11705	11705	11705
	19.45–20.15	English				
M. East	16.15–16.45	English	11705	11705	11705	11705
	16.45–17.30	Swedish	15240	15240	15240	15240
So. Asia	14.45–15.15	English	9620	15240	15240	15240
	15.15–16.00	Swedish	15240	17840	17840	17840
Far East	12.30–13.00	English	9620	15240	15240	15240
	13.00–13.45	Swedish	15240	17840	17840	17840

Radio Sweden reserves the right to alter the schedule if necessary.

SWEDEN CALLING DX-ers: Every Mo. in all English & French language broadcasts. Every Wed. in the German broadcast; also in Spanish (once monthly) and Portuguese (Wed.).

ANN.: "This is Radio Sweden". – **F.:** "Ici Stockholm". – **G.:** "Hier ist der schwedische Rundfunk, Stockholm". – **Sp.:** "Habla Estocolmo". – **P.:** "R. Suécia apresenta". – **Sw.:** "Sveriges radio, Stockholm".

INT.-SIG.: Foreign Service: The first movement of Carl Michael Bellman's: "Storm och böljor tystna te'n"



V. by QSL-card, folder and/or letter. R. Sweden will appreciate all letters and reports on reception of the transmissions. Prgr. schedules by writing to Radio Sweden, Stockholm 7.

PUB.: Monthly: "Radio Sweden" in six languages: English, French, German, Spanish, Portuguese, Swedish.

IBRA RADIO AB (Non-Comm., Non-Go., Christian)

ADDR.: IBRA RADIO, Box 821, Stockholm 1. – **Studios:** The main studio in Sveavägen 34, Stockholm. Co-workers in Tangier, Belgium, Denmark, Finland, France, Germany, Gt. Britain, Holland, Italy, Japan, Norway, Portugal, U.S.A. – **Cable:** "IBRARADIO". **L.P.:** Pres.: Dr. Lewi Pethrus. Vice Pres.: Karl G. Ottoson. Dir. Prgr.: H. Carlsson.

STATIONS: R. Africa Tangier.
935 kc/s 321.1 m 125 kW – 11825 kc/s 25.37 m 15 kW
9630 – 31.15 – 15 – – 15285 – 19.63 – 2.5 –
Freq. are subject to change in order to avoid interference.

SHORTWAVE SCE.:

Swedish: D.: 18.30–20.00, 21.00–21.15, 21.45–22.15 (exc. Wed.). – **Addr.:** IBRA Radio, Box 821, Stockholm, Sweden. – **Norwegian:** D. exc. Wed. 17.30–18.00. – **Addr.:** IBRA Radio, St. Olavsgat. 24, Oslo, Norway.

Danish: Tues., Thurs., Fri.: 20.45–21.00; Wed. 18.00–18.15. – **Addr.:** IBRA Radio, Box 151, Copenhagen K, Denmark.

Finnish: Wed. 17.30–18.00. Fri. 20.15–20.30. – **Addr.:** IBRA Radio, Helsinki, Finland.

French: D. 20.00–20.15. – **Addr.:** IBRA Radio, B.P. 1060, Rouen, France.

French (for Belgium): Mo. 20.00–20.15. – **Addr.:** IBRA Radio, Boite Postale 64, Bruxelles, Belgium.

Dutch: Tues., Thurs., Sat. 20.15–20.30. – **Addr.:** IBRA Radio, Breda, Holland.

German: D. 20.30–20.45 (Sun. 20.15–20.45). – **Addr.:** IBRA Radio, Hamburg 6, Germany.

English: D. 21.15–21.45. – **Addr.:** IBRA Radio, Luton, Beds., England. – U.S. office: IBRA Radio Mission, Inc., 1469 Catalpa Ave., Chicago 40. Ill. Canada office: IBRA Radio Mission, 95, Breadalbine, Toronto, Ont.

Italian: Sat., Sun., Mo., Wed. 20.45–21.00. – **Addr.:** IBRA Radio, Casella Postale 2388, Roma, Italy.

Russian: Tues., Sat. 18.00–18.30. **Polish:** Sun., Fri. 18.00–18.30.

Hungarian: Mo., Thurs. 18.00–18.30. **Estonian:** Mo., Fri. 17.15–17.30. **Greek:** Wed. 20.15–20.30. **Latvian:** Tues. 17.15–17.30. **Rumanian:** Wed. 18.15–18.30. **Ukrainian:** Sun., Thurs. 17.15–17.30. **Serbe:** Mo. 20.15–20.30. **Slovak:** Wed., Sat. 17.15–17.30. – **Addr.:** as for Swedish.

Japanese: Wed. 21.45–22.00. – **Addr.:** IBRA Radio, P.O. Box 126, Yokohama, Japan.

Last **Tues.** of every month prgr. in **Esperanto** at 19.15–19.30. **Addr.:** as Swedish.

Every Wed. prgr. for **DX-ers** at 22.00–22.15.

MEDIUM WAVE SCE.:

Italian: Thurs., Sat. 21.45–22.00. – **Addr.:** See s.w.-sce.

French: Mo., Wed., Fri. 17.15–17.30. Sun., Tues., Sat. 21.30–21.45. – **Addr.:** see s.w.-sce.

Spanish: Sun. 07.45–08.00. W. 06.45–07.00. Mo., Wed., Thurs., Fri. 21.30–21.45. – **Addr.:** IBRA Radio, Tangcr, Morocco.

Portuguese: Sun., Tues., Thurs., Sat. 17.15–17.30. Mo., Tues., Wed., Fri. 21.45–22.00. – **Addr.:** IBRA Radio, Apt. 1133, Lisboa-Norte, Portugal.

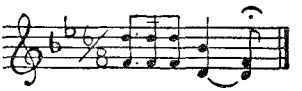
English: Sun. 21.45–22.00. – **Addr.:** see s.w.-sce.

IBRA Radio reserves the right to alter the schedules if necessary.

It is possible that also a frequency in 41 m.b. will be used in the winter-period. On account of the situation in Morocco it is possible that broadcasts from other stations than Radio Africa in Tangier will take place.

ANN.: Swedish: "Detta är IBRA Radio, som sänder över Radio Africa Tanger". – Norwegian: "Dette er IBRA Radio, Norge, som sender på kortbølge over Radio Africa Tanger". – Danish: "De lytter til IBRA Radio, Danmark, der på kortbølge sender over Radio Africa, Tanger". – Finnish: "Täällä IBRA Radio, Helsinki". – Dutch: "Hier is de IBRA Radio, die uitzendt over Radio Africa Tanger". – German: "Hier ist IBRA Radio, Deutschland, und sendet über Radio Africa Tanger". – English: "This is IBRA Radio, transmitting from Radio Africa Tanger". – French: "Ici IBRA Radio, France". – Belgian: "Ici IBRA Radio, Belgique". – Italian: "Qui IBRA Radio, Roma, transmessa da Radio Africa Tanger". – Spanish: "Aqui IBRA Radio, que transmite...". – Portuguese: "Aqui IBRA Radio que...". – Esperanto: "Jen Radio IBRA kiu sendas pere de Radio Africa Tanger".

INT.-SIG.: From Lewi Pethrus' hymn: "Löftena kunna ej svika".



V. by QSL-card. Listeners reports of prgr. in different languages can be addressed to the addr. above of the countries mentioned. Most of them have different QSL-cards. – **PUB.:** Monthly: "IBRA" in a Swedish and an English edition. Daily: "DAGEN", Sweden's greatest Christian newspaper.

Adv.:
IBRA RADIO FEDERATION (headquarters in Tanger) is an international federation of listeners. Anybody can become a member of this federation. **"IBRA"**, the monthly magazine, is mailed to each member. The membership fee is: Sw. Crowns 30.–, US § 10.– or Engl. § 1. IBRA RADIO MISSION is an organ receiving gifts in favour of the Swedish free radiowork.

★ SWITZERLAND ★

L.T.: GMT+1 h. – **Pr. L.:** German dialects, French, Italian, Rosmanche. **Po.:** 5.210.000. – **Rcvrs.:** 1.364.193. – **E.C.:** 220 V., A.C., 50 c/s.

SWISS BROADCASTING CORPORATION

(A non profit making, pr. Comp.)

ADDR.: Schweizerische Rundspruchgesellschaft, Societé Suisse de Radiodiffusion, Swiss Broadcasting Corporation, Societá Svizzera di Radiodiffusione, Neuengass-Passage 2, Berne. – **Cable:** Radif.

Schweizerischer Kurzwellendienst, Service Suisse des Ondes Courtes, Swiss Shortwave Service, Neuengasse 23, Berne. – **Regional Centres: Radio Zürich,** Brunnenhofstr. 20, Zürich. – **R. Berne,** Schwarztorstr. 21, Berne. – **R. Basel,** Novarastr. 2, Basel. – **R. Lausanne,** Maison de la Radio, La Sallaz, Lauzanne. – **R. Genève,** 66, Boulevard Carl Vogt, Genève. – **R. Lugano,** Campo Marzio, Lugano.

L.P.: Pres. of the Board of Adm.: Dr. W. Spühler. Dir. Gen.: M. Benzençon. Head of Adm. and Deputy Dir. Gen.: D. Carl. Dir. Swiss Shortwave Sce.: P. Borsinger. Deputy Dir. Swiss Shortwave Sce.: Dr. G. H. Padel. Head of Spoken Word in Swiss Shortwave Sce.: Dr. H. de May. Dir. Swiss TV: E. Haas.

Managers of the Regional Centres: Beromünster: Studio Zürich: Dr. Samuel Bächli. Studio Berne: Dr. K. Schenker. Studio Basel: Dr. F. Ernst. **Sottens:** Studio Lausanne: J.-P. Méroz. Studio Genève: Dr. R. Dovaz. **Monte Ceneri:** Studio Lugano: Dr. S. Molo.

HOME SERVICE

GERMAN:

First Prgr.: Sun. 06.45–22.15. Mo.–Fri. 05.15–06.30, 10.00–13.30, 14.59–22.15. Sat. 05.15–06.30, 09.00–22.15.

	kc/s	m	kW		kc/s	m	kW
Beromünster	529	567.1	150	Coire	1367	219.5	0.5
Basel	1367	219.5	0.5	Sool	1367	219.5	0.5

Switzerland

FM: Relay Beromunster:

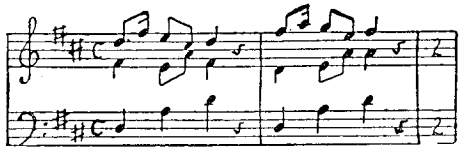
	ch.	mc/s		ch.	mc/s		ch.	mc/s
Valzeina I	41	99.3	Ladir I	30	96.0	Brig I	23	93.9
Sils I	29	95.7	Gstaad	30	96.0	Leuk	20	93.0
Niederhorn	42	99.6	Davos	29	95.7	Attinghaus.	13	90.9
St. Anton	33	96.9	Tarasp	27	95.1	Poschiavo I	2	88.2
Celerina I	33	96.9	Sool I	26	94.8			

Symphony: Tues. 19.00. – **N., Wrp.:** 05.15, 06.00 (Sun. 06.50), 11.30, 18.30, 21.15. – **Commentary:** 18.40. Fri. 18.00 "World Chronicle": Mo. 21.20 Review for Swiss Abroad. – **Mbg.:** Mo. 19.30.
Second Prgr.: D. 18.00–21.15, Sun. about 12.30–16.30, 18.40–21.15.

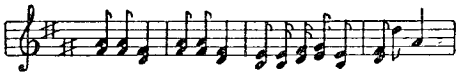
FM:	ch.	mc/s		ch.	mc/s		ch.	mc/s
Basel	40	99.0	Säntis	28	95.4	Brig II	8	89.4
Uetliberg	35	97.5	Bantiger	27	95.1	Celerina II	3	87.9
Sool II	34	97.2	Ladir II	15	91.5	Sils II	23	93.9
Leuk II	36	97.8	Davos II	3	87.9	Tarasp II	15	91.5
						Valzeina II	11	90.3

FRENCH:
First Prgr.: Sun. 06.10–22.15. Mo.-Fri.: 06.00–07.00, 10.00–13.00, 14.59–22.15. Sat. 06.00–09.00*), 10.00–22.15 (Wed. 07.00–08.00 exc. July/Aug.: Université radiophonique). *)From 1/1 60: 07.00–09.00 **"Route libre".**
Sottens 764 kc/s 392.6 m 150 kW – Saviese 1367 kc/s 219.5 m 0.5 kW.
FM: Rel. Sottens: Loeche ch. 4, 88.2 mc/s – Les Ordons ch. 24, 94.2 mc/s – Ravoire ch. 41 99.3 mc/s. Mont Cornu ch. 2 87.6 mc/s.
Symphony: Wed. 19.30. Thurs. 20.30. – **N., Wrp.:** 06.15, 11.45, 18.15, 21.30. – **Commentary:** 18.00 micro-partout, after 17.00 Le micro dans la vie, 18.25 Le miroir du monde (Fri.: La situation internationale) – **Mbg.:** Wed. 19.15.
Second Prgr.: D. 18.00–21.30. Sun. about 14.00–16.00, 19.00–21.30.
FM: La Dole ch. 14, 91.2 mc/s – Mont Cornu ch. 2, 87.6 mc/s – Leuk-Feschel II ch. 11, 90.3 mc/s – Les Ordons II ch. 36, 97.8 mc/s.

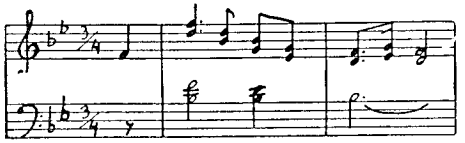
ITALIAN:
First Prgr.: Sun. 07.00–22.00. Mo.-Fri.: 06.00–06.45, 10.00–13.00, 14.59–22.00. Sat. 06.00–06.45, 10.00–22.00.
Monte Ceneri 557 kc/s 538.6 m 50 kW.
FM: Rel. Monte Ceneri: Monte Morello I ch. 31 96.3 mc/s. Poschavio ch. 23, 93.9 mc/s. – **Symphony:** Thurs. 19.30. – **N., Wrp.:** 06.15 (Sun. 07.15), 11.30, 18.15, 21.30. – **Commentary:** 18.20. – **Mbg.:** Sun. 13.00.
Second Prgr.: W. 18.00–21.30. Sun. 14.15–16.15, 19.00–21.00.
FM: Monte Ceneri II ch. 8 89.4 mc/s – Monte Morello II ch. 6, 88.8 mc/s – Monte San Salvatore II ch. 20 93.0 mc/s.
JOINTS PRGRS.: (Beromünster, Sottens, Monte Ceneri): Mo.-Sat. 10.00–11.00 (First Prgr.) and 18.00–19.00 (Second Prgr.).
ANN.: Beromünster: "Schweizerischer Landessender Beromünster". – **Sottens:** "Sottens – émetteur national suisse". – **Monte Ceneri:** "Radio della Svizzera italiana – Stazione nazionale di Monte Ceneri".
INT.-SIG.: Beromunster: Radio Basel: "Z'Basel a mym Rhy".



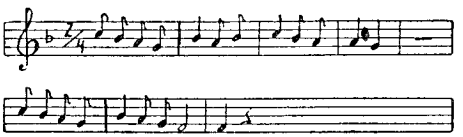
Radio Bern: "D'Zyt isch do".



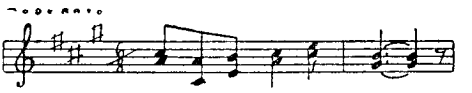
Radio Zürich: "Chum Bueb und lueg dis Ländli a".



Radio Geneve: "Quelle fatale journée" chanson de l'Escalade.



Sottens: Radio Lausanne: "Voici la mi-été".



Monte Ceneri: "Campane delle Chiesa di Pazzalino".

V.: Any messages from our listeners and viewers are most welcome. – **F.PL.:** A network of 63 FM tr. under construction (28 rel. national tr., 35 second prgr.) – **PUB.:** Weekly: "Schweizer Radiozeitung, Radio und Fernsehen". "Radio – je vois tout". "Radioprogramma" – Prgr. sched. for Shortwave Sce. twice a year.

FOREIGN SERVICE

Schwarzenburg: 100 kW d.

HER3	6165 kc/s	–	48.66 m	HER6	15305 kc/s	–	19.60 m
HEI3	7210	–	41.61 –	HEU6	15315	–	19.59 –
HER4	9535	–	31.46 –	HER7	17784	–	16.87 –
HEU3	9665	–	31.04 –	HER8	21520	–	13.94 –
HER5	11865	–	25.28 –	HEI9	21605	–	13.89 –

EUROPEAN SERVICE:
German, French, Italian on 6165/9535 kc/s W.: 05.15–07.00, 10.00–13.00, 15.00–22.40. Sat. 05.15–07.00. 10.00–22.40. Sun. 06.10–22.40. N.: (G = German. F = French) 05.15(G), 06.00(G), 06.15(F), 11.30(G), 11.45(F), 18.15(F), 18.30(G), 21.30(F), 22.20(G). **Esperanto:** Tues., Thurs. 11.55. Mo., Fri. 17.30.
European Sce. rebroadcast to Africa: 05.15 (Sun. 06.10)–07.00, 10.00–12.30, 16.30–22.40 on 21520 kc/s.

OVERSEAS SERVICE:

English	Beamed Areas	kc/s
01.30–03.15	No. America I	11865/9535/6165
04.15–05.00	No. America II	6165/11865/9535
07.15–09.45	Ea. Au., N.Z., We. Au., F. East	21520/15305/11865
12.45–14.30	So. Ea. Asia, Japan	15305/21520/17784
14.45–16.30	India & Pakistan	21605/15305
15.45–16.30	So. Africa	21520
16.45–18.30	Middle East	21605/15305
18.45–19.30	U.K., Ireland	9665/7210

Prgrs. in all transmissions:
N. and commentaries at beginning of each tr. – **Folk music:** D. – **Entertainment:** Swiss Sunday Special, Sun. – **Religious talks:** Sun. – **Actuality prgr.:** "On the Spot", Mo. – **Jazz:** Wed. – **Recipes:** Tues. – **Features:** "The Mountains of Switzerland", Tues. and "Around and About in Switzerland", Thurs. – **Country dance music:** Thurs. – **DX Corner:** Every Fri. – **Youth Prgr.:** Sat. – **Sunspot predictions:** (after the Home News) 4/5th of each month. – **Light classical music:** Tues. – **Swiss Composers and music played by Swiss artists:** Tues. – **"Swiss Concert Hall"**, presenting Swiss Orchestras and Choirs: Thurs. – **Light Music:** Rendezvous in Geneva, Sat. – **Request prgr.:** "A Penny – A Song", Sat.

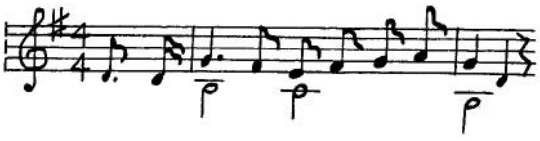
For Swiss Abroad: In French (Mo.), **Italian** (Wed.), **German** (Fri.).
Arabic: Every Sat. in our M. East transm. starting at 18.15 we broadcast a prgr. in Arabic prepared by the International Committee of the Red Cross in Geneva.

Spanish
21.05–22.30 Spain 11865/9665 kc/s – 23.20–00.45 So. America 11865/15315/9535 kc/s – 03.30–04.00 C. America 11865/15315/9535 kc/s. **N. and commentaries** (Noticias y comentarios): D. – **Actuality:** (Reflejos de la semana) Thurs. – **Listeners' questions** (Consultorio radiofonico): Tues. – **Young people in Switzerland** (La Juventud en Suiza): Sun. – **Lighter Commentaries** (Antena vagabunda): Sun. – **Music:** Folk music (musica popular): D. – **Classical music** (musica sinfonica): Thurs., Sun. – **Swiss Composers:** (Compositores suizos): Tues. – **Light Music:** Musicy y fantasia, Sun. and Cita con Louis Rey, Tues. – **Request prgr.** (Bailables): Sat.

Portuguese
20.45–21.05 Portugal 11865/9665 kc/s. 23.00–23.20 Brazil 11865/15315/9535 kc/s.

Moscow, Kreml

MOSCOW CALLING



Moscow Radio broadcasts for foreign listeners on short and medium waves in 38 foreign languages and 7 languages spoken by nationalities inside the Soviet Union.

Moscow Radio tells about life in the Soviet Union and about the most important international events.

Moscow Radio's broadcasts comprise news, comments, interviews, chronicles and also special programmes for women, children and young people, science and techniques, and programmes on sporting events, literature and concerts.

In Moscow Radio you can hear political personalities from the Soviet Union and leading Soviet men of science and culture, and also foreign guests: political and public personalities, representatives of business circles, scientists, artists, workers, and peasants.

Moscow Radio replies to its listeners by radio and letter, transmitting concerts according to their wants, organizing different competitions sending prizes to the winners.

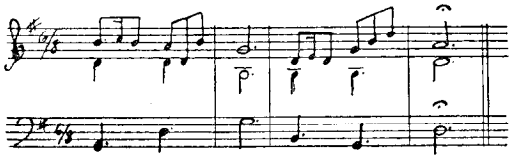
LISTEN TO THE BROADCASTS FROM MOSCOW RADIO

Times and wavelengths are published in this Handbook

N. and commentaries (Noticias, comentários): D. – **Actuality** (Coisas da Suiça): Sun. – **Folk Music** (Musica popular): D. exc. Sat. & Wed. – **Request programme** (Matando Saudades): Sat.

ANN.: E.: "This is Switzerland Calling". G.: "Hier spricht die Schweiz". F.: "Ici la Suisse". I.: "Qui è la Svizzera". Sp.: "Habla Suiza". P.: "Aqui Suiça".

INT.-SIG.: "Luegit vo Berg und Tal".



V. We are happy to receive letters and reception reports, which are all replied to or acknowledged by QSL-card and letter. R.p. welcome if airmail is required. – PUB.: S.w. sched.: twice a year (autumn, spring).

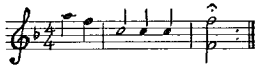
BROADCASTS FROM INTERNATIONAL COMMITTEE OF THE RED CROSS, GENEVA

In Peace Time: ICRC organizes occasional test transmissions (4 times a year) on the frequency of 7210 kc/s 41.61 m by courtesy of Swiss Short Wave Service. – **In Times of Crisis:** ICRC broadcasts on the same Wave-length programmes containing information regarding prisoners of war and civilians; for this purpose it has the use of the frequency twelve hours per day.

UNITED NATIONS BROADCASTING FROM GENEVA

ADDR.: Radio des Nations Unies, Palais des Nations, Genève. – L.P.: Act. Dir. Inf.: P. Jankowski. Chief of Radio Operations: I. H. Berenson.

FOREIGN SCE.:
9545kc 31.43m 25kW: Mo.-Fri. 13.45–14.15 in **Russian** to Ea. Europe.
11810 kc 25.4m 60kW; 9575kc 31.33m 100kW; 6010kc 49.92m 100kW: Mo.-Fri. 19.20–1935 in **Arabic** to Middle East.
17770kc/s 16.88m 100kW; 11905kc/s 25.20m 60kW: Sat. only 14.30–14.45 in **Persian** to Iran.
N., Commentary, features prepared in French and broadcast by Sottens (Switzerland), RTF (Paris) and INR (Brussels) several times a week, non-scheduled.
ANN.: E.: "This is the United Nations Radio in Geneva". – F.: "Ici les Nations Unies à Genève." – INT.-SIG.:



V. by QSL-card or letter. – PUB.: Prgr.sched. free on request.

★ U.S.S.R. ★

L.T.: See time table. – Pr.L.: Russian. – Po.: 205.000.000. – Rcvrs.: 8.400.000. – E.C.: 127/220 V., A.C., 50 c/s.
ADDR.: The Soviet Radio, Pjatnitskjaja ulitza 25, Moscow – Cable: Moskva Radio.
L.P.: Pres. of the Broade Committe: S. V. Kaftanov. 1ste Vice-Pres.: I. S. Tjernysjev. Vice-Pres.: V. I.Pahomov. Dir. of Central TV-Studio: G. A. Ivanov. Chief Foreign Relations: N. S. Birjukov.

STATIONS:

LONG & MEDIUM WAVES:

	kc/s	m	kW	H. of tr.
Moscow RSFSR	151	1987	500	See 1. prgr. R. Moscow
Petropavlovsk-Kamchatskij RSFSR	155	1935		22.30–14.00, 19.30–21.00
Tashkent, Uzbek	164	1829	50	00.30–10.45, 11.40–20.05
Moscow I RSFSR	173	1734	500	See 1. prgr.
Chita RSFSR	173	1734	20	22.00–00.00, 04.00–17.30
Alma Ata	182	1648	10	00.20–09.00, 11.30–20.00
Tbilisi, Georgia	191	1571	35	04.00–10.20, 14.00–21.05
Irkutsk	200	1500	20	22.30–02.00, 04.00–17.30
Moscow II	200	1500	100	See 2. prgr. R. Moscow
Kiev I-Ukrainian SSR	209	1435	150	03.00–10.00, 12.45–22.00
Baku, Azerbaijan	218	1376	35	01.55–11.05, 12.28–20.08
Krasnoyarsk RSFSR	218	1376	50	23.00–08.00, 09.00–17.00
Leningrad I RSFSR	236	1271	100	See 1. prgr. R. Moscow
Magadan	236	1271		18.00–13.00
Vladivostok	245	1224	100	20.20–14.00
Stalinabad Tajik SSR	254	1181	2	00.00–09.00, 10.00–21.00
Yakutsk RSFSR	263	1141	10	22.00–00.00, 02.00–14.00
Moscow II RSFSR	263	1141	150	See 1. prgr. R. Moscow
Novosibirsk RSFSR	272	1103	100	09.00–18.30(Sun. 19.00)
Minsk-Wh. Russian SSR	281	1068	100	03.00–12.00, 13.00–22.00
Ulan Ude RSFSR	281	1068	10	22.30–01.30, 03.30–22.00
Khabarovsk	335	896		19.30–10.45
Moscow II	340	882.4	100	See 2. prgr. R. Moscow
Yuzno-Sakhalinsk	360	833		19.25–21.45, 01.00–11.30
Moscow II RSFSR	365	820	20	See 2. prgr. R. Moscow
Ashkhabad, Turkmen	375	800	10	01.00–11.00, 13.00–21.00
Moscow II RSFSR	385	779	20	See 2. prgr. R. Moscow
Kharkov	385	779	50	
Tashkent I	400	750	50	00.00–10.00, 11.40–20.05
Minsk Wh. Russian SSR	400	750	50	See 1. prgr. R. Moscow
Odessa. Ukrain SSR	548	547.4	100	See 3. prgr. R. Moscow
Moscow II	548	547.4	100	See 2. prgr. R. Moscow
Stalingrad RSFSR	557	539	10	04.00–12.00, 14.00–16.30
Riga-Latvian SSR	575	521.7	100	03.00–11.00, 13.00–20.45
Ordzhonikidze	593	506		
Frunze, Kirghiz	611	491	2.5	00.30–08.00, 12.00–19.00
Petrozavodsk, Kar. ASSR	611	491	100	03.00–10.00, 13.00–22.00
Krasnodar RSFSR	611	491	20	
Simferopol, Ukrain. SSR	647	463.7	100	04.00–12.00, 13.00–21.00
Murmansk RSFSR	656	457.3	150	03.00–12.00, 13.00–22.00
Vilnius I-Lith. SSR	665	451.1	100	04.00–11.00, 13.00–21.00
Tjernovtsy Ukrain SSR	674	445.1	50	
Ufa	692	433.5	100	
Moscow II RSFSR	692	433.5	20	See 2. prgr. R. Moscow
Stalino-Ukrainian SSR	710	422.5	100	03.00–11.00, 13.00–21.05
Tallinn, Estonia	710	422.5	10	
Chelyabinsk RSFSR	737	407.1	10	01.00–03.00, 04.00–07.00 09.20–11.00, 12.45–14.00 15.00–21.00
Moscow II	737	407.1	20	See 2. prgr. R. Moscow
Rostov Don RSFSR	764	392.7	10	
Kiev II-Ukrainian SSR	782	383.6	100	04.20–08.00, 10.00–12.00 13.00–16.30
Leningrad II RSFSR	800	375	100	03.00–12.00, 13.00–17.00
Ashkabad	800	375		07.00–11.00, 13.00–21.00
Moscow II	809	371	10	See 2. prgr. R. Moscow
Gorkij	827	363	10	03.00–12.00, 13.00–22.00
Moscow II RSFSR	827	363	20	See 2. prgr. R. Moscow
Kharkov, Ukraine	836	358.9	20	
Kazan RSFSR	845	355	10	14.30–22.00
Erevan, Armenia	863	347.6		02.00–11.00, 13.00–14.45
Moscow III RSFSR	872	344	150	See 3. prgr. R. Moscow
Stavropol RSFSR	881	340		03.00–12.00, 13.00–21.05
Uzhgorod-Ukrain. SSR	890	337.1	20	02.30–12.00, 13.15–16.00
Makhachkala RSFSR	917	327.2	10	03.00–11.00, 13.00–21.00
Ivanovo RSFSR	926	324	10	
Lvov-Ukrainian SSR	935	320.9	100	03.00–12.00, 13.00–18.00
Voronezh RSFSR	944	317.8	20	
Smolensk RSFSR	971	309	20	See 2. prgr. R. Moscow
Odessa, Ukraine	971	309	50	
Yuzhno-Sakhalinsk	973	308		19.25–21.45, 01.00–13.05
Kishinjov, Moldavian SSR	998	300.6	100	03.00–12.00, 13.00–21.00
Odessa, Ukrain. SSR	1016	295	20	
Tallinn I-Estonian SSR	1034	290.1	100	03.00–11.00, 13.00–20.44
Tbilisi, Georgia	1043	287		03.00–12.00, 14.00–21.00
Dnjepropetrovsk-Ukrainian SSR	1070	280.4	20	03.00–12.00, 13.00–21.00
Mogilev-Wh. Russ. SSR	1106	271.2	100	
Vilnius II-Lith. SSR	1106	271.2	100	15.00–19.30
Leningrad III RSFSR	1124	266.9	20	03.00–12.00, 13.00–22.00
Kaliningrad RSFSR	1142	262.7	20	03.00–12.00, 13.00–22.00
Kiev-Ukrainian SSR	1169	256.6	150	
Kursk RSFSR	1214	247.1	20	
Tallinn II-Eston. SSR	1214	247.1	5	
Moscow III RSFSR	1232	235	150	See 3. prgr. R. Moscow
Tiraspol-Moldavian SSR	1241	241.7	20	
Kharkov II-Ukrain. SSR	1322	226.9	100	
Kuldiga-Latvian SSR	1349	222.4	20	
Riga II-Latvian SSR	1349	222.4	20	
Valmiera-Latvian SSR	1349	222.4	20	
Kaunas-Lithuan. SSR	1385	216.6	150	
Tartu-Estonian SSR	1403	213.8	20	
Tjernigov-Ukrain. SSR	1421	211.1	5	
Gomel-Ukrainian SSR	1493	200.9	5	
Vinnitsa-Ukrainian SSR	1546	194.0	5	
Baranovitji-Whiterussian SSR	1554	193.1	5	

FM: Moscow I 4.27 m – Moscow II 4.45 m

SHORT WAVES:

R. Moscow (Frequencies reported):

4200(71.43)	7850(38.22)	11650(25.75)	12020(24.94)	15375(19.51)
4940(60.73)	9330(32.15)	11660(25.73)	12075(24.84)	15380(19.51)
5230(57.36)	9450(31.75)	11690(25.66)	15045(19.94)	15390(19.49)
5260(57.03)	9470(31.68)	11700(25.64)	15065(19.91)	15400(19.48)
5270(56.93)	9490(31.61)	11705(25.63)	15070(19.91)	15410(19.47)
5905(50.8)	9500(31.58)	11715(25.61)	15080(19.89)	15425(19.45)
5940(50.51)	9510(31.55)	11720(25.6)	15090(19.88)	15440(19.43)
6000(50.0)	9520(31.51)	11730(25.58)	15100(19.87)	15457(19.41)
6020(49.83)	9535(31.46)	11735(25.56)	15115(19.85)	15470(19.39)
6035(49.71)	9555(31.4)	11740(25.55)	15118(19.84)	16370(18.33)
6080(49.34)	9570(31.35)	11750(25.53)	15130(19.83)	17555(17.09)
6365(47.13)	9585(31.3)	11755(25.52)	15141(19.82)	17595(17.05)
6405(46.84)	9593(31.27)	11760(25.51)	15150(19.8)	17710(16.94)
7100(42.25)	9600(31.25)	11770(25.49)	15155(19.8)	17715(16.93)
7115(42.16)	9610(31.22)	11785(25.46)	15170(19.78)	17740(16.91)
7140(42.02)	9625(31.17)	11790(25.45)	15180(19.76)	17755(16.91)
7145(41.99)	9630(31.15)	11800(25.42)	15195(19.74)	17765(16.89)
7155(41.93)	9650(31.09)	11805(25.41)	15205(19.73)	17770(16.88)
7175(41.81)	9655(31.07)	11825(25.37)	15210(19.72)	17780(16.87)
7185(41.75)	9660(31.06)	11840(25.34)	15225(19.7)	17790(16.86)
7200(41.67)	9665(31.04)	11845(25.33)	15230(19.7)	17800(16.85)
7215(41.58)	9680(30.99)	11850(25.32)	15235(19.69)	17810(16.84)
7220(41.55)	9685(30.98)	11860(25.3)	15240(19.69)	17815(16.84)
7230(41.49)	9700(30.93)	11865(25.28)	15245(19.68)	17825(16.83)
7245(41.41)	9710(30.9)	11875(25.26)	15255(19.67)	17840(16.82)
7260(41.32)	9720(30.86)	11880(25.25)	15260(19.66)	17850(16.81)
7270(41.27)	9735(30.82)	11890(25.23)	15270(19.65)	17855(16.81)
7280(41.21)	9750(30.77)	11900(25.21)	15275(19.64)	17865(16.79)
7290(41.15)	9760(30.74)	11905(25.2)	15280(19.63)	17875(16.78)
7310(41.04)	9760(30.74)	11910(25.19)	15290(19.62)	17880(16.78)
7340(40.87)	9775(30.69)	11920(25.17)	15295(19.61)	17895(16.76)
7360(40.76)	9790(30.64)	11925(25.16)	15300(19.61)	17900(16.76)
7375(40.68)	9810(30.58)	11930(25.15)	15305(19.6)	17910(16.75)
7385(40.62)	9830(30.52)	11940(25.13)	15315(19.59)	17945(16.72)
7390(40.6)	9850(30.46)	11950(25.1)	15320(19.58)	20088(14.93)
7400(40.54)	9903(30.29)	11960(25.08)	15335(19.56)	21610(13.88)
7440(40.32)	11575(25.92)	11985(25.03)	15355(19.54)	21670(13.84)
7470(40.16)	11630(25.8)	12000(25.00)	15370(19.52)	21900(13.7)

Alma Ata: 4625(64.86) 4955(60.54) 4972(60.34) 5260(57.03) 5762(52.07) 8250(36.36) 9250(32.43) 9340(32.12) 9380(31.98) 9640(31.12) 10530 (28.50). **Ashkhabad:** 4235(70.84) 6353(47.22) 7330(40.93). **Baku:** 3187 (94.14) 4958(60.51) 9840(30.49). **Blagoveshchensk:** 4965(60.42). **Chimkent, Kazakh:** 4310(69.61). **Erevan:** 4930(60.85) 5740(52.26) 6075(49.38) 7150(41.96) 7270(41.27) 9625(31.17). **Frunze:** 4009(74.83). **Guryev:** 4559(65.80). **Ivanovo:** 4997(60.04) 5302(56.60). **Kaunas:** 6135 (48.90) 15320(19.59). **Kazan:** 4050(74.00). **Khabarovsk:** 4273(70.21) 5940(50.51) 6020(49.83) 6115(49.06) 7150(41.96) 7210(41.61) 9377 (31.99) 9750(30.77) 11690(25.66) 11840(25.34) 15230(19.70) 17865 (16.79) 21630(13.87). **Kiev:** 4940(60.73) 6020(49.83) 7132(42.06) 7175 (41.81) 7185(41.75) 7200(41.67) 9665(31.04) 11700(25.64) 11740(25.55) 11785(25.46) 11820(25.38) 11860(25.30) 11890(25.23) 15305(19.60). **Komsomolsk:** 6020(49.83) 7280(41.21) 9660(31.06) 9725(30.85) 11755 (25.52) 11850(25.32) 11900(25.31) 15195(19.74) 15215(19.72) 15235 (19.69) 15335(19.56) 15457(19.41) 17745(16.91) 17865(16.79). **Krasnoyarsk:** 5290 (56.71). **Leningrad:** 9600(31.25) 9790(30.64) 11630(25.79) 11885(25.24). **Lvov:** 9790(30.64). **Magadan:** 4996(60.05) 7270(41.27) 9500(31.58) 11820(25.38). **Minsk:** 6820(43.99). **Murmansk:** 7650(39.22). **Nicolayevsk:** 5230(57.36). **Novosibirsk:** 5225(57.42) 15422(19.46). **Petropavlovsk:** 5050(59.41) 5115(58.65) 6070 (49.42) 7330(40.93) 9180(32.68) 11730(25.58) 11755(25.52) 11850(25.32) 11900(25.21) 15050(19.93) 15110(19.85) 15140(19.82) 15195(19.74) 15245(19.68) 15252(19.67). **Petrozavodsk:** 5065(59.23) 6055(49.55). **Stalinabad:** 4635(64.72) 7330 (40.93) 9555(31.40). **Tallinn:** 6085(49.30). **Tashkent:** 6730(44.58) 6825 (43.96) 7100(42.25) 11690(25.66). **Tbilisi:** 4540(66.08) 5040(59.52) 6050 (49.59). **Ufa:** 4486(66.88). **Ulan Ude:** 6135(48.90). **Uralsk:** 4873(61.56). **Vladivostok:** 5015(59.82) 5115(58.65). **Yakutsk:** 5979(50.18). **Yuzhno Sakhalinsk:** 4635(64.72).

HOME SERVICE

RADIO MOSCOW:

First prgr.: On 151, 173, 236, 263: D. 03.00–22.00 (Sat., Sun. 23.00)– On 400 kc/s: D. 12.45–21.00. – In 16 m.b.: D. 03.00–14.00. – In 25 m.b.: D. 03.00–20.00. – In 31 m.b.: D. 03.00–21.05. – In 41 m.b.: D. 15.30–22.00. – In 51 m.b.: D. 19.30–22.00. In 74 m.b.: D. 04.30–15.00. **FM I:** W. 03.00–10.15, 11.00–15.30, 16.00–22.00. Sun. 03.00–07.30, 08.30–23.00. – **News:** 03.05 05.00, 06.00, 11.00, 13.00, 14.00, 15.00, 16.00, 19.30, 20.50.

Daily prgr. preview: 03.35, 05.15, 10.00, 16.18.

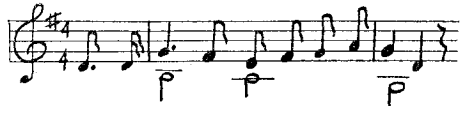
Second prgr.: On 200 kc/s: W. 07.00–12.20. Sun. 05.45–12.30. – On 340, 827 kc/s: D. 16.20–22.00. – On 365, 692 kc/s: 16.20–21.00. – On 385 kc/s: D. 13.00–22.00. – On 548 kc/s: W. 07.00–13.00. Sun. 05.45–15.00. – On 737 kc/s: W. 16.00–21.00. Sun. 05.45–21.00. – On 809 kc/s: W. 07.00–22.00. Sun. 05.45–22.00. – On 971 kc/s: D. 12.20–15.30. Sun. 10.30–15.00. – In 25 m.b.: W. 07.00–15.00. Sun. 05.45 –15.00. – In 41 m.b.: D. 16.00–22.00. In 50 m.b.: W. 12.00–21.00. Sun. 05.45–21.00.

FM II: Mo.-Fri. 07.00–15.00, 16.00–22.00. Sat. 07.00–13.00, 15.00–22.00. Sun. 05.45–08 30. 15.30–22.00.

Third prgr.: On 548, 872, 1232 kc/s and in 41, 31, 25 m.b.: D. 16.20 (Sun. 16.00)–21.00.

ANN.: "Govorit Moskva". – "This is Radio Moscow".

INT. SIG.: For Home and Foreign Service:



PUB.: "Radioprogrammy" (weekly).

FOREIGN SERVICE

RADIO MOSCOW:

TO EUROPE

Bulgarian: m.b.
07.15–07.30 19, 25, 31
17.30–18.00 31, 49, 257, 337

Danish:
17.00–17.30 25, 31, 41, 49
18.15–18.30 25, 31, 41, 49
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Dutch:
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French:
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German for Austria:
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19.00–20.00 25, 31, 41, 321

Greek:
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14.00–14.15 16, 19
16.30–17.00 31, 41, 309, 337
18.30–19.00 41, 49, 337
20.00–20.30 41, 49, 337
21.00–21.30 41, 49, 309, 337

Hungarian:
19.00–19.30 41, 49, 337
20.30–21.00 41, 49, 337

Italian:
06.00–06.15 19, 25, 41, 49
11.15–11.30 16, 19, 25
18.00–19.30 25, 31, 41, 49
20.00–21.00 25, 31, 41, 49, 321
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Macedonian:
18.00–18.30 41, 49, 257, 321
20.00–20.30 41, 49, 257, 321

Norwegian:
18.30–19.00 31, 41, 49, 375
20.15–20.45 31, 41, 49, 375
21.15–21.30 31, 41, 49, 375

Polish: m.b.
15.30–16.00 25, 31, 41, 49
18.30–19.00 25, 31, 41, 321
21.30–22.00 41, 49, 337, 375

Portuguese:
21.00–22.00 25, 31, 41

Rumanian:
08.00–08.30 16, 19, 31
17.00–17.30 31, 49, 257, 337

Serbian:
05.45–06.00 19, 25, 41, 49
18.30–19.00 41, 49, 257, 321
19.30–20.00 41, 49, 257, 321
20.30–21.05 41, 49, 257, 321
21.30–22.00 41, 49, 257, 301, 309, 321

Slovenian:
19.00–19.30 41, 49, 257, 321
21.05–21.30 41, 49, 257, 301

Spanish:
12.30–12.45 13, 16, 19
18.00–18.30 25, 31, 41, 49
20.00–21.00 25, 31, 41
21.30–22.30 19, 25, 31, 41, 49

Swedish:
17.00–17.15 31, 41, 49, 375
19.45–20.15 31, 41, 49, 375
20.45–21.15 31, 41, 49, 375

Concert:
21.30–22.30 25, 31, 41, 49, 301, 321, 337

TO NEAR AND MIDDLE EAST

Arabic: m.b.
04.45–05.15 16, 19, 25, 31, 41
12.30–13.00 16, 19, 25
15.30–16.00 31, 41, 60, 309
17.30–18.30 31, 41, 49, 60, 309, 347.6
18.30–21.00 31, 41, 49, 60, 309

Persian:
03.30–04.15 25, 31
09.30–10.00 25, 31
14.45–15.25 31, 41, 49, 60, 347.6
16.30–17.30 31, 41, 49, 60, 309, 347.6
18.30–19.00 31, 347.6

Pushtu:[1])
13.00–13.30 25, 31
15.30–16.30 13, 16, 19, 25
[1]) to Afghanistan

Turkish:
10.00–10.30 16, 19, 25
13.30–14.00 16, 19, 25
15.30–16.00 31, 41, 49
16.00–16.25 31, 41, 49, 60, 309, 337
18.00–18.30 31, 41, 49, 337
19.30–20.00 41, 49, 337

TO AFRICA
English: m.b.
13.00–13.30 13, 16, 19, 25
17.00–18.00 25, 31, 41, 49
19.00–19.30 31, 41, 49
French:
12.00–12.30 13, 16, 19, 25
19.30–20.00 25, 31, 41, 49
20.00–21.30 31, 41, 49
TO SO. EA. ASIA
English: m.b.
05.00–05.30 13, 16, 19, 25
08.00–08.30 16, 19, 25
12.30–13.00 16, 19, 25
15.00–15.45 19, 25
Bengali:
07.00–07.30*) 13, 16, 19, 25
08.30–09.15**) 13, 16, 19, 25
13.30–14.00*) 19, 25
14.15–15.00**) 25, 31
Hindi:
07.30–08.00 13, 16, 19, 25
13.00–13.30 16, 19, 25
15.45–16.30 19, 25
Tamil:
14.00–14.30 19, 25
Urdu:
04.30–05.00*) 13, 16, 19, 25
09.15–10.00**) 13, 16, 19, 25
13.30–14.15**) 25, 31
14.30–15.00*) 19, 25
*) to India. **) to Pakistan
Burmese:
10.00–10.30 13, 16, 19, 25
12.30–13.00 13, 16, 19, 25
15.00–15.30 13, 16, 19, 25
Indonesian:
08.00–08.30 13, 16, 19, 25
10.45–11.15 13, 16, 19, 25
11.45–12.30 13, 16, 19, 25
13.30–14.30 13, 16, 19, 25
Vietnamese:
10.30–10.45 13, 16, 19, 25
13.00–13.30 13, 16, 19, 25
14.30–15.00 13, 16, 19, 25
22.45–23.00 31, 41
TO FAR EAST
Chinese: m.b.
08.30–09.00 19, 25, 31, 238, 477, 547
10.00–10.30 16, 19, 25, 31, 477, 547
11.00–11.30 16, 19, 25, 31, 477, 547
Japanese:
08.00–08.30 13, 16, 19, 25
09.30–10.00 19, 25, 31, 238, 477, 547
10.30–11.00 16, 19, 25, 31, 477, 547
12.00–12.45 19, 25, 31, 41, 49, 340, 477, 547
13.15–14.30 31, 41, 49, 238, 340, 477, 547
14.30–15.00 25, 41, 477, 547
21.30–22.00 25, 31, 41, 49, 238, 477, 547, 1224
Korean:
09.00–09.30 19, 25, 31, 238, 477, 547
11.30–12.00 19, 25, 31, 41, 477, 547
12.45–13.15 19, 25, 31, 41, 49, 477, 547
14.00–14.30 25, 49, 547
21.00–21.30 25, 31, 41, 49, 238, 477, 547, 1224
22.00–22.30 25, 31, 41, 49, 238, 477, 547, 1224
Mongolian:
09.30–10.00 16, 19, 25, 1734
13.15–14.00 19, 25, 1734
TO USA
English: m.b.
23.00–06.00 (1st Prgr.) 25, 31, 41
03.00–08.00 (2nd Prgr.) 16, 25, 31
TO SO. AMERICA
Spanish: m.b.
23.00–03.00 16, 25, 31, 41
03.00–04.00 25, 31
Portuguese:
22.00–24.00 25, 31

RADIO TALLINN:
Finnish: m.b.
08.00–09.20 (Sun.) 290
15.00–15.30 422
16.00–16.30 290
Swedish:
21.30–22.00[2]) 290
[2]) Mo., Wed., Fri.
Estonian:
21.30–22.00[3]) 290
[3]) Tues., Thurs., Sat.
Concert:
21.30–22.00 (Sun.) 290

RADIO VILNIUS:
Lithuanian: m.b.
21.00–21.30 (Sun.) 451
22.30–23.00 25, 31, 41

R. EREVAN
Arabic: m.b.
14.10–14.40 41, 347.6
19.00–19.30 41, 347.6
Armenian:
15.30–16.30 41, 347.6
19.30–20.30 41, 347.6

R. TASHKENT:
English: m.b.
12.30–13.00 25, 41
16.30–17.00 25, 41
Urdu:
13.00–14.00 25, 41
Persian:
15.30–16.00 25, 41
17.30–18.00 41

R. KIEV:
Ukrainian: m.b.
16.00–17.00[4]) 41, 49
18.00–19.00[4]) 49
01.30–03.00[5]) 25, 31, 41
04.00–05.30[5]) 31, 41
06.00–06.30[5]) 25, 31, 41
[4]) to Europe [5]) to America

R. BAKU:
Turkish: m.b.
05.30–05.45 31
11.00–11.30 31
17.15–18.15 31
Azerbajani:
04.00–04.15 31
13.30–14.15 31
Persian: m.b.
04.30–04.45 31
12.00–13.00 31
15.00–15.45 31
Arabic:
16.00–17.00 31

RADIO STALINABAD:
Tadzjik:[6]) m.b.
04.45–05.45 31, 41
13.00–13.30 31, 41
14.30–15.00 31, 41
Persian:
13.30–14.30 31, 41
[6]) to Iran/Afghanistan

★ VATICAN STATE ★

L.T.: GMT+1 h. – Pr.L.: see below. – Po.: 1.000. – E.C.: 125/220 V., A.C., 45 c/s.

VATICAN RADIO (Rel.)

ADDR.: Vatican Radio, Vatican City. – Cable: Vatican Radio. – L.P.: Dir. Gen.: Rev. Prof. Antonio Stefanizzi, S. J. Dir. Tec.: Dott. Ing. Tullio Gorio.

STATIONS:
Medium Waves: HV2 782 kc/s 383.6 m 2 kW – HV100 1529 kc/s 196.2 m 100 kW – HV5 1484 kc/s 202.2 m 5 kW.
Short Waves: 5/25/50/100 kW.

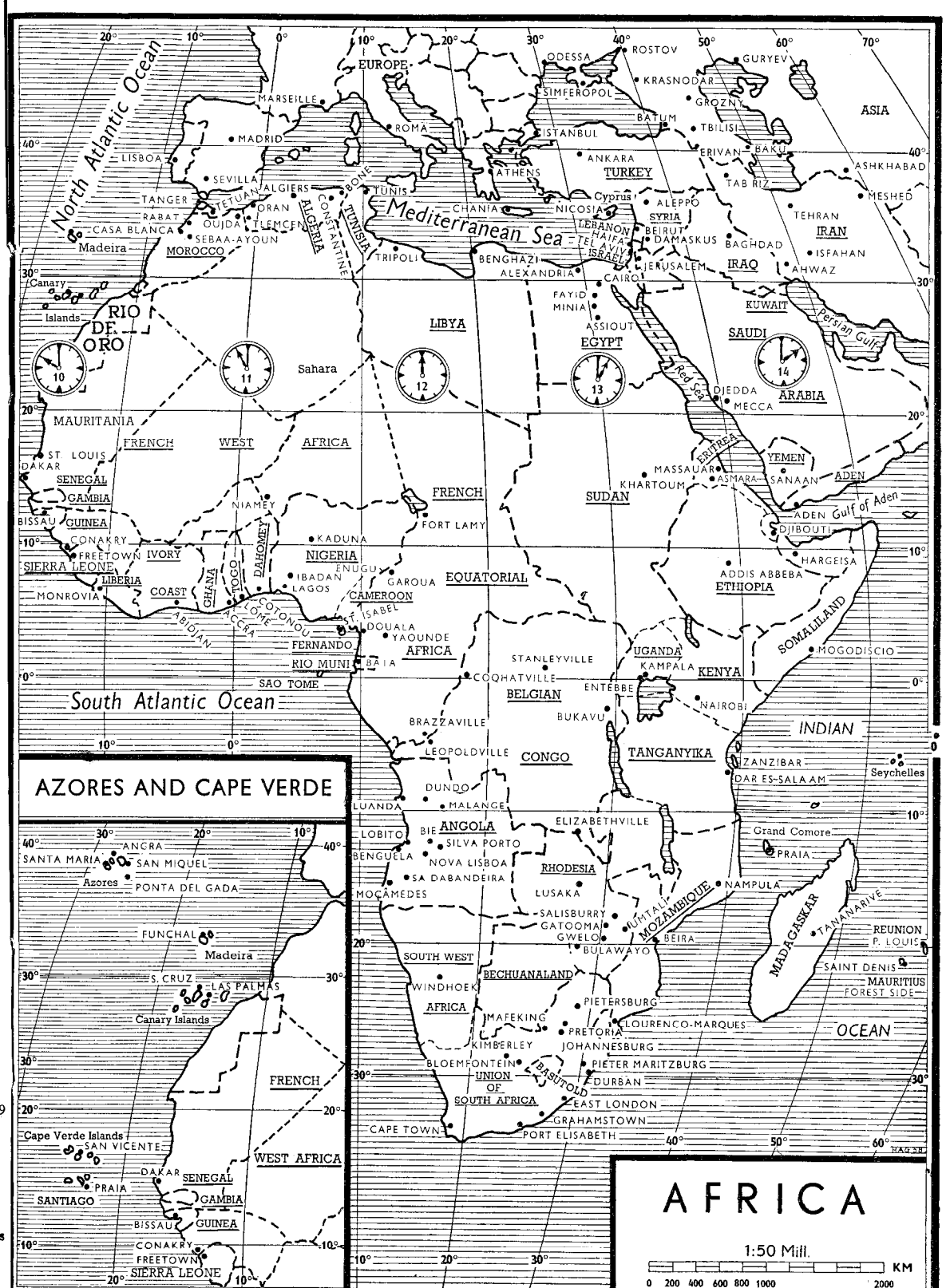
kc/s	m	kc/s	m	kc/s	m	kc/s	m
3955	75.85	7270	41.27	11740	25.55	17735	16.92
5968	50.27	7280	41.21	11940	25.13	17840	16.82
6005	49.96	9550	31.41	15120	19.84	21515	13.94
6030	49.75	9646	31.10	15290	19.62	21740	13.80
6190	48.47	9660	31.06	15385	19.50	25740	11.66
7250	41.38	11685	25.67	17720	16.93	25780	11.64

The wavelengths are subject to change with seasonal variations, or to avoid interference.
FM: mc/s 93.30, 96.30; kW 0.5.

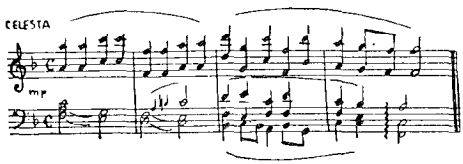
PROGRAM SCHEDULE: Nov./Apr.

		kc/s
Abyssinian:	16.45 Mo., Wed., Fri.	15120, 17840, 21515, 1529
Albanian:	20.30 Tues., Thurs., Sat.	6190, 1529
Arabic:	16.45 Sun., Tues., Thur., Sat.	11685, 15120, 17840, 1529
Bulgarian:	17.30 Tues., Thur.	6190, 9646, 11685, 1529
	11.00 Sun.	9646, 11685, 15120, 1529
Chinese:	22.30 Tues., Thur., Sat	9646, 11685
Croat:	17.45 Sun., Mo., Tues. Wed., Fri.	6190, 7280, 9646, 1529
Czech:	12.30 D.	9646, 11685, 15120, 1529
	19.30 D.	6190, 7280, 9646, 1529
Dutch:	21.15 Sun., Mo., Wed., Fri.	6190, 7280, 9646, 1529
English:	15.00, 18.15 D.	9646, 11685, 15120, 1529
	16.00 Mo., Wed., Sat.	15120, 21515 (Ind., Pak., Ceylon)
	10.30 Mo., Wed., Fri.	17735, 21740 (C. So. Af.)
French:	11.45, 14.30 D.	9646, 11685, 15120, 1529
	19.15 D.	6190, 7280, 9646, 1529
	11.00 Mo., Wed., Fri.	17735, 21740 (Equ. Af., B. Congo)
German:	12.45, 14.45 D.	9646, 11685, 15120, 1529
	19.45 D.	6190, 7280, 9646, 1529
Hungarian:	13.00 D.	9646, 11685, 15120, 1529
	21.00 D.	6190, 7280, 9646, 1529
Italian:	13.30 D.	6190, 7280, 9646, 11685, 1529, 782
	18.30 D.	6190, 7280, 11685, 1529, 782
	16.00 Fri.	6190, 7280, 9646, 1529, 782
Japanese:	21.45 Mo., Wed., Fri.	9646, 11685
Latin:	11.30, 16.30 Tues., Thur., Sat.	7280, 9646, 11685, 15120, 1529
	21.15 Tues., Thur., Sat.	6190, 7280, 9646, 1529
	20.00 D. (H. Rosary)	6190, 7280, 11685, 1529
Latvian:	17.30 Mo., Fri.	7280, 9646, 11685, 1529
Lithuanian:	07.30 Sun.	9646, 11685, 15120
	17.15 D.	9646, 11685, 15120, 1529
Polish:	12.15, 15.15 D.	9646, 11685, 15120, 1529
	19.00 D.	6190, 7280, 9646, 1529
Portuguese:	15.30 D.	9646, 11685, 15120, 1529
	20.30 D.	7280, 9646, 11685
	11.00 Tues., Thur., Sat.	17735, 21740 (Angola-Mozamb.)
	23.00 D.	17840, 21515 (for Brazil)
Rumanian:	17.30 Sun., Wed., Sat.	7280, 9646, 11685, 1529
Russian:	18.00 D.	9646, 11685, 15120, 1529
Slovak:	12.00 D.	9646, 11685, 15120, 1529
	20.15 D.	6190, 7280, 9646, 1529
Slovene:	17.45 Thur., Sat.	6190, 7280, 9646, 1529
	20.30 Mo., Fri.	7280, 1529
	10.45 Sun.	9646, 11685, 1529
Spanish:	14.15 D.	9646, 11685, 15120, 1529
	20.45 D.	6190, 7280, 9646, 1529
	23.30 D.	17840, 21515 (for So.Am.)
	00.00 D.	9646, 11685 (for So.Am.)
	00.30 D.	9646, 11685 (for C.Am.)
Swedish, Danish, Norwegian:	20.30 Wed.	7280, 9646, 1529
Ukrainian:	17.00 Sun., Tues., Thur., Fri.	9646, 11685, 15120, 1529
White Ruth.:	17.00 Mo., Wed., Sat.	9646, 11685, 15120, 1529
Musical concert:	16.00 Thurs.	6190, 7280, 9646, 11685, 1529
Sun.:	08.30 Mass in Latin Rite Music during the Mass. Gospel homily for 15 min. after Mass, alternatively in different languages	9646, 11685, 15120
Oriental Liturgy:	09.30 (Homily in respective languages)	9646, 11685, 15120, 1529

OPENING SIGN.: The bells of St. Peter's.
ANN.: "Laudetur Jesus Christus. Praised be Jesus Christ. This is Vatican Radio".


North Atlantic Ocean
EUROPE
ASIA
Mediterranean Sea
South Atlantic Ocean
INDIAN OCEAN
Sahara
MAURITANIA
FRENCH WEST AFRICA
LIBYA
EGYPT
SUDAN
FRENCH EQUATORIAL AFRICA
NIGERIA
BELGIAN CONGO
ANGOLA
RHODESIA
TANGANYIKA
KENYA
UGANDA
ETHIOPIA
SOMALILAND
ARABIA
TURKEY
IRAN
IRAQ
SYRIA
LEBANON
ISRAEL
KUWAIT
SAUDI ARABIA
YEMEN
ERITREA
SPANISH SAHARA
MOROCCO
ALGERIA
TUNISIA
SENEGAL
GAMBIA
GUINEA
IVORY COAST
LIBERIA
SIERRA LEONE
GHANA
TOGO
DAHOMEY
CAMEROON
GABON
SOUTH WEST AFRICA
BECHUANALAND
BASUTOLAND
UNION OF SOUTH AFRICA
MOZAMBIQUE
MADAGASKAR
Madeira
Canary Islands
Cape Verde Islands
AZORES AND CAPE VERDE
AFRICA
1:50 Mill.
KM
0 200 400 600 800 1000 2000

INT.-SIG.: Carillon Melody "Christus Vincit" executed on the celeste with orchestral accompaniment. – **V.** by QSL-card..



★ YUGOSLAVIA ★

L.T.: GMT+1 h. – **Pr.L.: Serbo-Croat:** Beograd, Niš, Novi Sad, Priština, Zagreb, Sljeme, Split, Rijeka, Osijek, Dubrovnik, Sarajevo, Titograd; **Slovenian:** Ljubljana, Maribor, Koper, Celje, Murska Sobota; **Macedonian:** Skopje, Bitola. – **Po.:** 18.548.000. – **Rcvrs.:** 1.088.151 (January 1959). – **E.C.:** 220 V., A.C., 50 c/s.
ADDR.: Radiotelevision Yougoslave, Beograd, Knez Mihajlova 19. – **L.P.: Radiotelevision Yougoslave:** Pres. Adm. Committee: D. Popovič. Vice-pres.: Mrs. V. Malinska. Secr. Gen.: Dr. I. Pustišek. Head For. Rel.: Mrs. Olivera Vojvodič. Pres. Prgr. Com.: S. Majstorovič, D. Seliger. Pres. Jur. Com.: Dr. I. Balen. Pres. Techn. Com.: Eng. S. Rojec. Pres. Prgr. Com. for TV: D. Strbac. – **Radiotelevision Beograd:** Dir. Gen.: D. Popovic. Dir. Prgr.: V. Pešič. – **Radiotelevision Zagreb:** Dir. Gen.: I. Šibl. Dir. Prgr.: D. Strbac. – **Radiotelevision Ljubljana:** Dir. Gen.: D. Seliger. Dir. Prgr.: Dr. E. Tomc. – **Radio Skopje:** Dir.: Mrs. V. Malinska. – **Radio Sarajevo:** Dir.: Mrs. D. Kurtovič. – **Radio Titograd:** Dir.: B. Nilevič. – **Radio Novi Sad:** Dir.: M. Olajoš. – **Radio Priština:** Dir.: I. Mulja.

HOME SERVICE

MEDIUM WAVES:

Main stations	kc/s	m	kW	Main stations	kc/s	m	kW
Sarajevo	611	490.9	100	Ljubljana I	917	327.1	135
Beograd	683	439.2	150	Zagreb	1133	264.7	135
Skopje	809	370.8	135	Novi Sad	1268	236.6	100
Titograd	881	340.5	20	Priština	1412	212.4	20
Local stations:							
Niš	926	324	10	Dubrovnik	1484	202.2	0.5
Rijeka I	1133	264.7	15	Beograd II	1484	202.2	2
Koper	1169	256.6	6	Ljubljana II	1484	202.2	2
Maribor	1412	212.4	5	Sljeme	1484	202.2	2
Split	1412	212.4	50	Osijek	1484	202.2	2
Bitola	1484	202.2	0.5	Rijeka II	1484	202.2	2
Celje	1484	202.2	0.5	Murska Sobota	1484	202.2	2

SHORT WAVES:
Beograd 10/10/50/100 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6100	49.18	7200	41.67	9505	31.56	11735	25.56
6150	48.78	7240	41.66	9620	31.18	15240	19.69

FM:	kc/s	kW		kc/s	kW		kc/s	kW
Beograd	94.5	25	Pohorje	88.5	0.35	Ljubljana I	94.1	1.5
Beograd	97.3	5	Kum	90.1	1.5	Zagreb	94.9	1.5
Niš	96.9	5	Novi Sad	90.4	0.25	Koper II	97.7	0.35
Priština	96.3	5	Ljubljana II	90.9	0.25	Psunj	98.1	1.5
Požarevac	91.7	5	Nanos	91.7	0.35	Split	98.1	0.25

R. Beograd: W. 04.00–23.00. Sun. 04.30–23.00. – **N., Commentary:** 04.00, 07.00, 09.00, 11.00, 12.00, 13.00, 14.00, 15.00, 16.00, 17.00, 18.30, 21.00, 23.00. – **Wrp.:** 04.05, 06.30, 14.05, 21.05.

R. Zagreb: W.: 04.00–08.00, 12.00–23.00. Sun. 05.00–23.00. – **N., Commentary:** 04.00, 05.00, 06.00, 08.00, 12.00, 14.00, 16.00, 18.30, 21.00, 23.00. – **Wrp.:** 05.05, 06.05, 12.05, 14.05, 21.05.

R. Ljubljana: W.: 04.00–22.00. Sun. 05.00–22.00. – **N., Commentary:** 04.00, 05.00, 06.00, 07.00, 09.00, 12.00, 14.00, 16.00, 18.30, 21.00, 21.55. – **Wrp.:** 04.05.

R. Skoplje: W.: 04.25–07.30, 10.55–22.00. Sun. 04.25–22.00.

R. Sarajevo: W.: 05.00–07.30, 12.00–22.00. Sun. 05.00–22.00.

R. Titograd: W.: 04.30–06.30, 13.00–21.00. Sun. 05.00–21.00.

R. Novi Sad: W.: 04.00–23.00. Sun. 04.30–23.00.

R. Pristina: W.: 04.30–07.00, 11.00–22.05. Sun. 05.00–22.05.

FOREIGN SERVICE

NB: The time indicated is local time = GMT+1h.

Albanian: kc/s
15.00–15.30 6100, 7200, 9505
19.30–20.00 7200

Arabic:
17.30–17.45 6100, 7200, 9505
18.30–19.00 6100, 9620

Bulgarian: kc/s
19.00–19.30 6150, 7200, 9505
21.15–21.30 6150, 7200, 9505

Czech:
19.30–20.00 9620
21.30–21.45 6150, 7200, 9505

English: kc/s
16.00–16.15 15240, 7200, 11735
17.15–17.30 15240, 7200, 11735
19.30–20.00 6150, 9505

French:
20.30–20.45 6150, 7200, 9505
21.45–22.00 7200, 9505

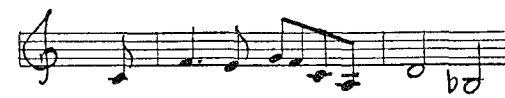
German:
18.30–19.00 7200, 9505
21.45–22.00 6100, 9620

Polish: kc/s
17.00–17.15 6100, 7200, 9505
20.45–21.15 6100, 7200, 9505

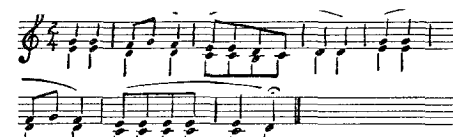
Russian:
18.00–18.30 6100, 7200, 9505
20.00–20.30 6100, 7200, 9505

Spanish:
01.00–01.30 6100, 7200, 9505
02.00–02.30 6100, 7200, 9505
22.30–23.00 6100, 7200, 9505

ANN.: Home Service: "Here is Radio Beograd, ... Zagreb, ... Ljubljana etc.". – "Ovde Radio Beograd, ... Zagreb, ... Ljubljana etc.". – **Foreign Service:** "This is Yugoslavia, Radio Belgrade calling". – "Ici la Yougoslavie, Belgrade vous parle".
INT.-SIG.: Home and Foreign Service: The beginning of the "Internationale" (Radio Belgrade). – **V.** by QSL-card.



Radio Zagreb (Home Service):



★ ALGERIA (French) ★

L.T.: GMT+1 h. – **Pr. L.:** French, Arabic, Kabyl. – **Po.:** 9.715.000. – **Rcvrs.:** 500.000. – **E.C.:** 110 V, A.C., 50 c/s.

RADIO ALGERIA (Go.)
ADDR.: 10 Rue Hoche, Alger. – **L.P.:** Dir. Reg.: M. Mallein. Dir. Tec.: M. Godin. Dir. Prgr.: M. Héral. Dir. Adm.: M. Chemineau. Dir. Inform.: M. Godiveau. Dir. Inform. L. Arabic, Kabyl.: M. Rezzouk. Dir. Prgr. L. Arabic: M. Benhassine. Journal Télévisé: M. Guillet. Reportages: M. Amrouche.

FRENCH NETWORK: W. 05.30–08.00, 10.00–13.00, 14.00–22.00. Sun. 06.00–22.00.

	kc/s	m	kW		kc/s	m	kW
Alger II	980	306.1	200	Colomb Béchar	742	404.4	1
Touggourt	742	404.4	1	Bône (evening)	1484	202.2	0.2
Constantine I	1142	262.7	20	Bougie (fr. 19.30)	1594	188.2	0.6
Les Trembles I	1142	262.7	20	Alger OCI	11835	25.35	50

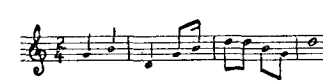
N.: 06.30, 12.00, 19.15. – **Wrp.:** 11.58, 19.00. – **Request Prgr.:** D. 06.45.
ARABIC NETWORK: W.: 06.00–08.30, 10.00–22.00 (09.00–11.00 rel. Kabyl). Sun. 05.30–22.00. – **W.** 13.00–16.00 rel. Arabic prgr. from Paris.

	kc/s	m	kW		kc/s	m	kW
Alger I	890	337.1	200	Constantine II	1304	230	20
Les Trembles II	1304	230.0	20	Alger OC2	9685	30.98	50

N.: 06.15, 12.00, 18.00, 19.00, 21.30.
KABYL NETWORK: W.: 06.00–07.00 (W. 09.00–11.00 rel. Kabyl) prgr. from Paris on 890/9685 kc/s), 11.00–13.00, 16.00–19.30. Sun.: 05.30–08.00, 11.00–14.00, 16.00–19.30.

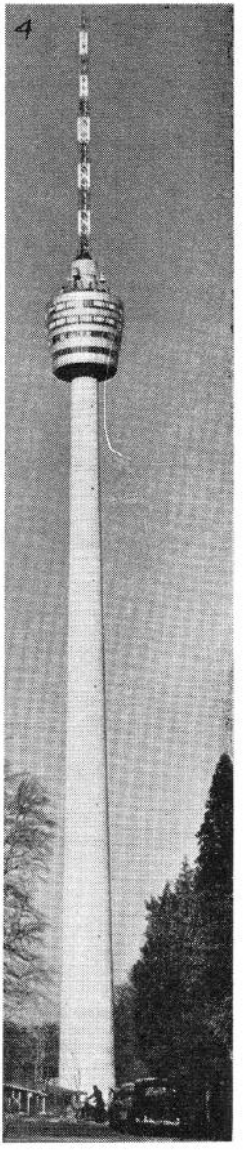
	kc/s	m	kW		kc/s	m	kW
Alger III	1457	206	40	Bougie (even.)	1594	188	0.6
Michelet (even.)	1570	191.0	5	Alger OC3	6145	48.82	50

N.: 06.15, 12.00, 18.00, 19.25.
FOR ALGERIANS IN FRANCE:
"Alger vous parle": Sun. 07.00–08.00 on 890/1457/6145/9685 kc/s.
RELAY FROM PARIS: Alger OC4 7115 kc/s 42.16 m 50 kW: 18.00–23.00 in Arabic and Kabyl.
ANN.: F.: "Ici Radio Alger, Radiodiffusion Française".
INT.-SIG.: "La Casquette du Père Bugeaud":



V. by QSL-card. – **PUB.:** Monthly "Ici Alger".

1. **British Honduras:** Calypso Singers at B.H.B.S. Christmas Show
2. **Radio Niger:** A picture which gives an impression of a reportage-broadcast of Touareg-people.
3. **North Borneo:** Interviewing Dusun girls in their village.
4. **Germany:** Television-tower Stuttgart-Degerloch.
5. **Peru:** From Radio Inca's programme: "La hora radial japonesa" – a childrens song-contest.
6. **Kenya:** Omari and Halima, a comedy team, who have made Africans laugh with their broadcast sketches for many years.



★ ANGOLA (Portuguese West Africa) ★

L.T.: GMT+1 h. – Pr. L.: Portuguese. – Po.: 4.317.000. – Rcvrs.: 97.000. – E.C.: 220 V, A.C., 50 c/s.

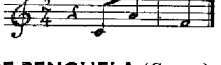
EMISSORA OFICIAL DE ANGOLA (Go.)

ADDR.: Caixa Postal 1.321, Luanda, Angola. – L.P.: Dir. Gen.: Eng. A. Jacinto Magro. Dir. Adjoining: Eng. J. Ferraz de Carvalho. – Dir. Progr.: Dr. Alfredo Diogo jr. – Dir. Adm.: A. Nascimento. – Dir. Tec.: Eng. L. M. Vicente.
HOME SCE.: CR6RZ.
1350 kc/s 222.2 m 1/3 kW 9765 kc/s 30.72 m 1 kW
4995 – 60.06 – 3 – 17795 – 16.86 – 10 –
6025 – 49.06 – 10 –
W.: 11.00–13.30 on 1350, 9765 (11.30–13.30 also 4995). 18.00–21.00 on 1350, 4995, 6025 kc/s 21.00–22.30, 17795 kc/s – Sun.: 08.00–09.30 on 1350 kc/s 11.00–17.00, 18.00–21.00, on 1350, 4995, 6025 kc/s. 21.00 22.30 17795 kc/s.
N., Comm., Wrp.: 12.00, 18.45 and 22.15. – Actualities from Angola and Metropolitan Portugal: Sun.: 12.15, 19.15; Tourist Prgrs.: Fri. 18.30. – Folklore of Angola: Wed.: 19.45. – Portuguese Music: Tues. & Fri. 18.15–18.45.
ANN.: "Emissora Oficial de Angola-Africa Ocidental Portuguesa".

V. by QSL-card.

RADIO CLUBE DE ANGOLA (Comm.).

ADDR.: C. P. 229, Luanda. Cable: Radangola, Luanda. – L.P.: Pres.: Com. M. de Albuquerque e Castro. Secr., Dir. Prgr.: Eng. A. M. da Costa. Production Mgr.: A. dos Santos e Sousa. Dir. Tec.: Eng. A. Palmeiro. Dir. Adm.: J. Teles.
HOME SCE. in Portuguese: Call: CR6----. W.: 06.00–07.00, 11.00–13.30, 17.00–22.00. Sun.: 08.00–13.30, 16.00–21.00.
RN 4869 kc/s 61.60 m 1 kW – RL 9632 kc/s 31.15 m 1kW
RA 7142 – 42.01 – 0.25 –
N.: D. 06.30, 12.00, 19.00, 21.50. – Mbg. Thurs. 20.00. – Wrp.: D. 12.10, 19.10.
ANN.: "Luanda, capital de Angola, provincia de Portugal em Africa, fala Rádio Clube de Angola, a "vossa estação".". – V. by QSL-card. –

INT.-SIG.:  PUB.: Weekly sched.

RADIO CLUBE DE BENGUELA (Comm.)

ADDR.: C. P. No. 19, Benguela. – L.P.: Dir. Gen.: Eng. M. B. Farinha. Dir. Tec.: J. C. da Luz.
HOME SCE.: in Portuguese: "A Voz de Benguela". Call: CR6....
RF 5042 kc/s 59.48 m 1 kW – RF 9502 kc/s 31.57 m 1 kW
RB 7161 – 41.89 – 0.15 –
W.: 05.45–06.45, 11.00–13.00, 17.00 (Sat. 16.00)–21.30. Sun.: 09.30–14.00, 16.00–20.00. – N.: W.: 06.30, 11.45, 18.30, 21.25, Sun. 13.00, 19.55.
ANN.: "Radio Clube de Benguela – uma das emissoras angolanas" "This is the Voice of Benguela". – "Radio Clube de Benguela fala para a Congo Belga e Africa Equatorial Francesa". INT.-SIG.: Solo on Kissange, a native instrument. – V. by QSL-card. – F.PL.: Television. – PUB.: Prgr.sched. 6 editions yearly.

RADIO CLUBE DO BIE (Comm.)

ADDR.: C. P. 33, Silva Porto. – L.P.: Mgr.: A. de Almeida, Dir. Tec.: A. Kruger.
HOME SCE.: CR6RO 7105 kc/s 42.22 m 1 kW: 11.00–13.00, 16.30–21.30.
ANN.: "Radio Clube do Bié". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO CLUBE DE CABINDA (Comm.)

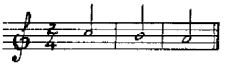
ADDR.: Caixa Postal 116, Cabinda.
L.P.: Dir. of Prgr.: G. C. Santos. Secretary: L. C. de Figueiredo. Treasurer: J. Constantino.
HOME SCE.: CR6RW 5055 kc/s 59.37 m 1/0.25 kW.
11.00–13.00 1 kW, 17.30–21.00 0.25 kW.
N.: 12.00, 19.00. – Nat. Music: 11.30, 17.45, 19.15. –
ANN.: "Aqui Cabinda, Angola, Africa Ocidental Portuguesa. Fala o Rádio Clube de Cabinda, uma Voz de Portugal". – V. by letter.

RADIO DIAMANG (Priv. non. comm.)

O.: Comp. de Diamantes de Angola.
ADDR.: R. Diamang, Dundo. – Cable: Diamang, Portugália. – L.P.: Dir. Gen.: J. M. de Noronha Feyo.
HOME SERVICE: Call CR6... 1 kW. – W.: 18.00–19.30. Sun.: 11.00–12.30. RG 4770 kc/s 62.89 m RR 7070 kc/s 42.42 m
RI 9612 – 31.21 – or RR 6870 – 43.63 –
ANN.: "Dundo, Africa Ocidental Portuguesa. Radio Diamang, Estação Emissora da Companhia de Diamantes de Angola". – INT.-SIG.: At opening "Fragmento da Rapsódia Portuguesa", folklore musical played by a Portuguese typical orchestra. – V. by QSL-card.

RADIO CLUBE DO HUAMBO (Comm.)

ADDR.: C. P. 125, Nova Lisboa. – Cable: Radihuambo. – L.P.: Pres.: Dr. E. Morais. Mgr., Secr. Gen.: H. C. Morgado. Dir. Adm.: M. de Abreu. Dir. Tec.: M. Santos. Comm. Dept.: S. Coelho.
HOME SCE.: CR6-RD.
4851 kc/s 61.84 m 1 kW – 7152 kc/s 41.94 m 0.5 kW – 11985 kc/s 25.03 m 1 kW.
W.: 06.00–07.00, 17.00–21.30 (Sun. 06.00–10.30, 14.30–19.00) on 4851/7152 kc/s – W. 11.00–13.00 (Sun. 11.00–13.30) on 7152/11985 kc/s.
ANN.: "Aqui Nova Lisboa, R. Clube do Huambo, Uma voz Portuguesa em Africa." "This is the R. Club of Huambo, Nova Lisboa, a Portuguese voice in Africa." – INT.-SIG.:



V. by letter. – F.PL.: Two 1 kw sw-trs. One 1 kW mw-tr. – PUB.: Prgr. sched. free upon request.

RADIO CLUBE DE HUILA (Comm.)

ADDR.: C. P. 111, Sá da Bandeira.
HOME SCE.:
CR6RH: 5024 kc/s 59.71 m 1 kW.: 06.15–07.15, 11.15–12.45, 18.00–21.00.
9755 kc/s 30.76 m 1 kW: Sun. 11.15–11.30.
ANN.: "Radio Clube de Huila". – INT.-SIG.: First movements from "Minho". – V. by QSL-card.

RADIODIFUSORA LOBITO (Comm.)

ADDR.: Estaçao Radio Difusora CR6AA, Av. do Imperio, P.O. Box 103, Lobito. Cable: Radiodifusora. – L.P.: O. Dir.: A. de Carvalho. Asst. Tec.: J. D. Correia.
HOME SERVICE: CR6AA 1 kW.
5033 kc/s 59.59 m: 16.00–20.00 in Portuguese, English.
7115 kc/s 42.16 m: 06.45–07.45, 11.30–12.45 in Portuguese.
ANN.: P.: "Lobito, Angola, Africa Ocidental Portuguesa". – E.: "This is Lobito, Angola, Portuguese W. Africa, Short Wave St. CR6AA". – INT.-SIG.: Gong notes. – V. by QSL-card.

RADIO CLUBE DE MALANJE (Comm.)

ADDR.: C. P. 83, Malanje. –
HOME SCE.: CR6RE 7245 kc/s 41.40 m 0.25 kW.
W.: 06.00–07.00, 11.00–13.00, 17.30–21.00. Sun.: 07.00–10.00, 12.00–21.00.
ANN.: "Radio Clube de Malanje". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO CLUBE DE MOÇÂMEDES (Comm.)

ADDR.: C. P. 174, Moçâmedes. Cable: Rádioclube. – L.P.: Pres.: Father N. Simão. Production Mgr.: C. Meleiro.
HOME SCE.: CR6RM 7230 kc/s 41.49 m 0.35 kW.
W.: 06.00–07.30, 11.00–13.30, 17.00–21.00. Sun.: 07.00–09.00, 11.00–14.00, 16.00–20.00.
N.: 06.30, 12.00, 19.00. – Actualities from Angola: Sun.: 12.00. – Portuguese music: 06.05, 11.05, 18.05. – Wrp.: 12.00, 19.00.
ANN.: "Angola, Africa Ocidental Portuguesa, de Moçâmedes, fala o Rádio Clube". – INT.-SIG.: At opening: "Monumental", folklore musical piece played on accordion.

RADIO CLUBE DO MOXICO (Comm.)

ADDR.: Caixa Postal 74, Luso. – L.P.: Pres.: Dr. C. Bãion. Vice-Pres.: E. S. de Abreu. Secretary: A. de Sá Rosa. Treasurer: M. Miranda.
HOME SCE.: CR6RV 5137 kc/s 58.40 m 1 kW: W. 05.30–07.00, 11.00–12.30, 17.30–21.00. Sun. 10.00–13.00, 16.30–21.00. – N.: 06.45 (W), 12.00, 19.00, 20.50.
FOREIGN SCE. in French (for Belgian Congo) & English (for Rhodesia): Tues. & Thurs. 19.20.
ANN.: "Radio Clube do Moxico". – V. by letter.

RADIO CLUBE DO SUL ANGOLA (Comm.)

ADDR.: C. P. 56, Lobito.
HOME SCE.: CR6RK 3603 kc/s 80.47 m 0.75 kW: 11.00–13.00 17.30–22.00. – INT.-SIG.: 4 notes on guitar from "Maria da Fonte"

RADIO CLUBE DO CUANZA SUL (Comm.)

ADDR.: C. P. 10, Novo Redondo. – L.P.: Pres.: A. R. Rodrigues. Adm.: A. A. Ferreira.
HOME SCE.: W. 11.00–13.00, 17.00–21.30 Sun. 11.00–14.00, 17.00–20.00.
CR6RY 4838 kc/s 62.00 m 1 kW – CR6RP 7285 kc/s 41.18 m 0.2 kW.
ANN.: "R. Clube Cuanza Sul". – INT.-SIG.: Guitar. – V. by QSL-card.

RADIO ECLESIA (Catholic)

ADDR.: C. P. 156, Luanda. – L.P.: Dir. Padre J. M. Pereira.

HOME SERVICE: CR6RB:
1010 kc/s 297.0 m 1 kW } 05.30–07.30, 09.30–12.30,
4824 – 62.18 – 4 – } 14.00–16.00, 17.30–20.30.
11785 – 25.46 – 4 – } N.: 06.00, 11.30, 18.15, 20.20.
ANN.: "Luanda, Africa Ocidental Portuguesa, Rádio Ecclésia, Emissora Católica de Angola." – INT.-SIG.: Music from "A Treze de Maio." – V. by letter.

★ BECHUANALAND (British Protectorate) ★

L.T.: GMT+2 h. – Pr.L.: English. – Recvrs.: 3000.
ADDR.: ZNB Broadc. St., Box 258, Mafeking.
ZNB 5900 kc/s 50.84 m 1 kW.
D. PRGR.: 11.00–12.00, 17.00–19.30. – V. by QSL-card. R.p.

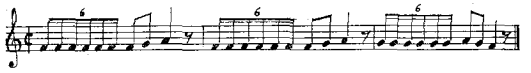
★ BELGIAN CONGO ★

L.T.: Leopoldville, Coquilhatville GMT+1 h., Elisabethville, Stanleyville, Bukavu, Luluabourg GMT+2 h. – Pr.L.: French, Flemish. – Po.: 13.6 3.000. – Recvrs.: 100.000. E.C.: 220 V, A.C., 50 c/s.

RADIO CONGO BELGE (Go.)
ADDR.: B.P. 3171, Leopoldville. – L.P.: European Prgr.: Dir. Broadc.: M. Vertommen. African Prgr.: Dir. Broadc.: L. Lhermitte. Reg. Stations: H. Ancelot.
EUROPEAN PRGR.: Leopoldville.

Call	kc/s	m	kW	
OTM2	4760	63.03	7.5	: 05.00–06.30 (Sun. 07.00), 15.30 (Sun. 15.00)–21.00 (Sat., Sun. 22.00).
OTM1	6295	47.66	3	: 15.30 (Sun. 15.00)–21.00. (Sat., Sun. 22.00)
OTM2	9385	31.98	50	: as 4760 kc/s
OTH3	11720	25.60	50	: 10.15–12.30.

FM: 90 mc/s 3.33 m 0.25 kW (all programs).
N.: F.: 06.00, 10.30, 11.30, 18.30, 20.50. Fl.: 06.10, 10.40, 11.40, 18.00, 20.55.
ANN.: F.: "Ici Radio Congo-Belge". – Fl.: "Hier Radio Belgisch-Kongo".
INT.-SIG.: Tam Tam (native xylophonebeat)



AFRICAN PRGR'S: L.: French, Lingala, Swahili, Tshiluba.
Nat. Prgr. (Leopoldville)

OTH	9210 kc/s	32.57 m	50 kW:	04.00–06.30, 15.30–20.00 (Sat. 22.00, Sun. 21.00)
OTM5	11795 –	25.43 –	50 – :	10.00–13.00.

N.: F.: 05.00, 06.00, 10.30, 11.30, 18.15. – Vernaculars: 17.00 (Sat. 14.00).
ANN.: "Ici les émissions africaines de Radio Congo Belge".
INT.-SIG.: Tam-tam

REGIONAL STATIONS: (French, Vernaculars and reg. dialects).
R. LEOPOLDVILLE: L.P.: St. Mgr.: Leulier.
5965 kc/s 50.28 m 3 kW: 15.30–20.00.
R. COQUILHATVILLE, B.P. 1061, Coquilhatville. – L.P.: St. Mgr.: R. Schartz.
6070 kc/s 49.42 m 10 kW: 15.30(Sat. 11.00, Sun. 09.00)–20.00.
V. by letter.
R. BUKAVU B.P. 475, Bukavu.
L.P.: St. Mgr.: H. de Sy.
STATION: OQE15
4839 kc/s 62.00 m 10 kW: 14.30 (Sat. & Sun. 12.00)–19.00 (F. & Swahili)
ANN.: F. "Ici les émissions africaines de Radio Congo Belge, á Bukavu". – V. by letter.
R. ELISABETHVILLE B.P. 1038, Elisabethville
L.P.: Mgr.: M. Verbruggen.
5933 kc/s 50.57 m 10 kW: 15.30–20.00.
R. LULUABOURG: L.P.: St. Mgr.: D. Rigolet.
6125 kc/s 48.98 m 10 kW: 15.30–18.30.
R. STANLEYVILLE B.P. 1745, Stanleyville. L.P.: St. Mgr.: Ph. Veys.
6079 kc/s 49.35 m 10 kW: 15.30–19.00
INT.-SIG.: Stanleyville: First movement of a native folksong:

V. by QSL-card (Leopoldville); by letter (Stanleyville).

RADIO COLLEGE (Pr.)
ADDR.: B.P. 296, Elisabethville. – L.P.: R. R. P. P. Salesiens, Ecole c/o Collège St. Francois de Sales.
H. SCE.: French (Fri. Flemish): W. 15.30–17.30. Sun. 07.00–10.00.
OQ2AC 0.25 kW: 3390 kc/s 88.5 m – 4980 kc/s 60.25 m – 7200 kc/s 41.67 m. – FM: 96 mc/s 0.05 kW.
ANN.: F.: "Ici Radio-Collège, station de radiodiffusion privée située au Collège Saint François de Sales, à Elisabethville, Congo-Belge". – Fl.: "Hier Radio-Collège, eigen zender van het Sint Franciscus Collège te Elisabethstad, Belgisch Kongo".
INT.-SIG.: Open: "Marche du Baron Tzigane" (Joh. Strauss). Close: "Marche Indigo". – V. by QSL-card. R.p. PUB.: R. Collège; monthly.

RADIO LEO (Pr. Religious. Operated by the Jesuits of Leopoldville)
ADDR.: Collège Albert I, Leopoldville-Kalina. – L.P.: Dir. Gen.: L. Rinen. Dir. Tec.: M. van Damme. Dir. Prgr.: R. de Seille.
HOME SCE.: OQ2AA 11720 kc/s 25.60 m 50 kW: French: Sun. 08.00–10.00.
ANN.: "Ici Radio-Leo, Leopoldville, Congo Belge. Station privée de radiodiffusion du Collège Albert I". – INT.-SIG.: Gong and extract from "Saisons-l'automne" (Glazunov). – V. by letter.

RADIO ELISABETH (financed by the subscription of listeners).
ADDR.: Box 1039, Elisabethville.
Elisabethville OQ2AB 0.25 kW: 7150 kc/s 41.96 m. 11900 kc/s 25.21 m. Sun. 13.30–16.00. – V. by QSL-card.

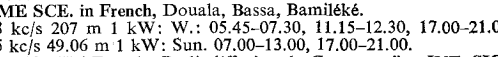
RADIO UFAC (l'Union des Anciens Combattants du Katanga)
ADDR.: B.P. 97, Elisabethville. – Cable: Radio Ufac.
L.P.: Pres.: R. Lemaire. Dir.: I. Freart. Dir. Prgr.: J. Gerard.
HOME SCE. in French & Flemish: OQ2AD – 3 kW.
R. Ufac 40/45 4980 kc/s 60.29 m: 17.30(Sun. 16.00)–20.00
R. VOV 40/45 7156 kc/s 41.93 m: Sun. 08.00–13.00.
French: D. exc. Sun. 17.00–19.00. – N.: 17.45. – Mbg.: Sun. 11.00.
Flemish: Sun. 18.00–19.30. – N.: 17.00.
ANN.: F.: "Ici Radiodiffusion UFAC 40/45". – Fl.: "Hier R. VOV 40/45" (Wed., Sun.). – INT.-SIG.: Belgian Congo march. – V. by letter.

★ CAMEROON (French) ★

L.T.: GMT+1 h. – L.: French, Vernaculars. – Po.: 3.200.000. – Recvrs.: 100.000. –

RADIO YAOUNDE (R. Cameroon I)
ADDR.: B.P. 281, Yaoundé. – L.P.: Dir. Cameroon Broadc.: M. V. Jean-Louis. Dir. Tec.: Chanabel. Dir. Prgr.: Moutongo-Black. Chief Editor: P. Mabbe.
HOME SCE.:
1538 kc/s 195 m 1 kW – 4975 kc/s 60.30 m 4 kW – 9657 kc/s 31.06 m 4 kW.
W.: 05.30–07.30, 11.15–13.00 (Sat. also 15.00–16.50) on 1538/9657 kc/s. 17.00–22.00 on 1538/4975 kc/s. Sun.: 06.00–16.50 on 1538/9657 kc/s, 17.00–22.00 on 1538/4975 kc/s.
N.: W.: 06.00, 06.30, 11.45 (Sat. 12.15), 17.00, 18.00, 18.30, 20.55 (Sat. 21.55). Sun.: 06.30, 07.55, 08.55, 12.15, 17.00, 18.00, 18.30, 21.55.
Cameroon Music: Mo. 18.05, Thurs. 17.05, Fri. 06.05, Sat. 11.15.
ANN.: F.: "Ici Yaoundé, Radiodiffusion du Cameroun". – INT.-SIG.: Local music or Tam-Tam rythme. – V. by QSL-card.

RADIO DOUALA: (R. Cameroon II)
ADDR.: B.P. 986, Douala. – L.P.: Dir.: F. Mouasso-Priso. Dir. Prgr.: J. Bitchoka. Dir. Tec.: S. Lobe.
HOME SCE. in French, Douala, Bassa, Bamiléké.
1448 kc/s 207 m 1 kW: W.: 05.45–07.30, 11.15–12.30, 17.00–21.00.
6115 kc/s 49.06 m 1 kW: Sun. 07.00–13.00, 17.00–21.00.
ANN.: F.: "Ici Douala, Radiodiffusion du Cameroun". – INT.-SIG.: By opening and close down and 11.15 and 17.00: Hymn of Cameroon: "O Cameroun berceau de nos ancêtres" fanfare.



V. by QSL-card. R.p.

R. GAROUA (R. Cameroon III):
ADDR.: B. P. 103, Garoua.
L.P.: Dir.: G. Breton. Dir. Tec.: S. M. Poual. Dir. Prgr.: J. Moudiki.
HOME SCE. in French, Haoussa, Foulfouldé: W. 11.15–13.00 (Fri. 13.30), 17.30 (Thurs., Sat. 17.00)–21.00 (Sat. 21.30). Sun.: 09.30–13.00, 17.00–21.30.
1348 kc/s 224.0 m 1 kW: 09.30–21.30
5010 – 59.88 – 4 – : 17.00–21.30
7240 – 41.44 – 4 – : 09.30–13.30
N. in French: 11.30, 18.00 (Sun. 18.15), 20.50. N. in Vernaculars: 12.50, 19.00. – Haoussa Music: 19.10.
ANN.: "Ici Garoua, Radiodiffusion du Cameroun". V. by QSL-card.

★ CANARY ISLANDS (Spanish) ★

L.T.: GMT. – Pr. L.: Spanish, English. – Po.: 1.200.000. – Rcvrs.: 380.000. – E.C.: 115/190 V, A.C., 50 c/s.

RADIO LAS PALMAS (Comm.)
ADDR.: Calle Trianum 134 Dpdo., Las Palmas. – L.P.: Dir.: P. Pastor S.
HOME SCE.: EAJ50 1313 kc/s 228.5 m 0.5 kW; D. 11.30–24.00.
ANN.: "Transmite la Estacion E.A.J. 50 Radio Las Palmas". – INT.-SIG.: Pasodoble "Islas Canarias". – V. by letter.

RADIO CLUB TENERIFE (Cultural and Comm.)
ADDR.: Apt. de Correos 225, S. Cruz de Tenerife.
L.P.: Pres.: J. G. Sanjuan. Dir. Tec.: P. Padrón.
HOME SCE.:

EAJ43	1412 kc/s	212.4 m	0.4 kW	12.00–17.00, 18.00–23.00
EAJ8AB	7295 –	41.12 –	0.25 –	17.00–18.00, 21.00–23.00

ANN.: "R. Club Tenerife, en Santa Cruz de Tenerife, Islas Canarias." – INT.-SIG.: Opening "Los Voluntarios"; from 17.00 "Islas Canarias" (pasodoble). – V. by QSL-card.

RADIO ATLANTICO (Broadc. System of the Falange)
ADDR.: Calle General Franco 50, Las Palmas. – L.P.: Dir. José A. Gutiérrez Peña. Dir. Tec.: J. G. Bantista.
HOME SCE. in Spanish & English:
1500 kc/s 200 m 2 kW: D. 08.00–09.00, 11.00–15.30, 18.00–24.00.
7000 kc/s 42.86 m: 9490 kc/s 31.61 m 1 kW: D. 22.00–24.00.
Nat. music: 22.00–23.00. – N.: 23.00. – Mbg.: 23.15–23.30. – Prgr. in English: Sat. 23.00–24.00 on 7000, 9490 kc/s.
ANN.: English: "This is R. Atlantico". – Spanish: "Transmite Radio Atlantico". – INT.-SIG.: Canary guitar-accords. – V. by QSL-card. – F.PL.: s.w.-tr. 2 kW.

RADIO JUVENTUD DE CANARIAS (R. E. M.)
ADDR.: Castillo 27, Santa Cruz de Tenerife.
L.P.: Pres.: M. A. Y. Contreras. Dir. Tec.: W. Ramos.
HOME SCE.: EFJ57 1248 kc/s 240 m 1.2 kW: 08.00–09.00, 12.00–16.00, 17.50–24.00.
ANN.: "Radio Juventud de Canarias".
INT.-SIG.: The first notes from "Arroro canario".

★ CAPE VERDE ISLANDS (Portuguese) ★

L.T.: GMT – 2 h. – Pr. L.: Portuguese, English. – Po.: 178.000. – Rcvrs.: 1400. – E.C.: 220/240 V, D.C.

RADIO CLUBE DE CABO VERDE (Pr.), C.P. 26, Praia.
L.P.: Dir. J. A. Ribeiro. Dir. Tec.: A. da Cunha.
HOME SCE.: CR4AA 3960 kc/s 75.76 m 5 kW: 20.00–22.00. – N.: 21.40. – Wrp.: 21.35.
ANN.: "Aqui Praia, estacão de ondas curtas do R. Clube de Cabo Verde". – INT.-SIG.: Four notes on marimba. – V.: by QSL-card.

RADIO CLUBE MINDELO (Pr.)
ADDR.: Rua Roberto Duarte Silva, Cidade do Mindelo S. Vicente. – L.P.: Pres.: A. Feijóo. Dir. Tec.: J. de Azevedo.
HOME SCE.: CR4AB 4755 kc/s 63.09 m 0.15 kW: 20.30–22.00.
ANN.: "Aqui, S. Vicente de Cabo-Verde, Província Ultramarina de Portugal. Fala-vos a Estaçao Emissora do Rádio Clube Mindelo, no comprimento de onda de 63 metros, equivalente á frequencia de 4.755 kc/s. Amigos ouvintes, muito boa noite vos dá o locutor... que passa a apresentar o resumo do nosso programa que hoje vos é dedicado...". V. by QSL-card or letter. – F.PL.: 1 kw sw.tr.

R. BARLAVENTO (Local club, non-comm.). ADDR.: C. P. 29, S. Vicente. – L.P.: Dir. Gen.: Dr. A. L. da Silva. Dir. Tec.: T. Pias.
HOME SCE.: CR4AC 3960 kc/s 75.76 m 1 kW: 22.00–24.00. – N.: 22.35, 23.30. – Wrp.: 22.30. – V. by QSL-card.

★ CENTRAL AFRICAN REP ★

L.T.: GMT+1 h. – Pr.L.: French, Vernaculars. – Po.: 1.177.000.

RADIO BANGUI (Go.)
ADDR.: B.P. 700, Bangui. – L.P.: Dir.: Derrier.
HOME SCE. in French & Vernaculars:
5982 kc/s 50.17 m 3 kW: W. 16.45–19.00
9513 – 31.53 – 3 – : Sun. 07.00–12.00
N.: French: W. 18.15. – Sangho: W. 17.30.
ANN.: "Ici Bangui". – INT.-SIG.: First seven bars of Central African's hymn, played on the Zanza (a local instrument).

★ COMORES ISLANDS (French) ★

L.T.: GMT+3 h. – Pr.L.: French, Vernaculars.

RADIO DZAOUDZI (Go.)
ADDR.: L'Administrateur Supérieur du Territoire des Comores, Service de la Radiodiffusion, Dzaoudzi, Grand Comore.
Station at present closed down. A new 1 kW transmitter will probably reopen with daily transmissions on 4960 kc/s. Date for opening not yet fixed.

★ CONGO (French) ★

L.T.: GMT+1 h. – Pr. L.: French, English, Portuguese, Spanish. – Po.: 4.824.000. – Rcvrs.: 10.000.

RADIO BRAZZAVILLE (Go. – belongs to Radiodiffusion-Télévision Française).
ADDR.: B. P. 108, Brazzaville. Cable: Radiodiffusion. – L.P.: Dir. Gen.: C. Boissiere. Dir. Adm.: A. Taillade. Dir. Tec.: H. Defroyenne. Dir. Inf.: R. Branellec. Dir. Prgr.: H. de Camaret.
INTERNATIONAL SERVICE:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
5970	50.25	1.5	9770	30.70	7	15440	19.43	50
9545	31.43	50	11725	25.58	50	17720	16.93	50
9625	31.16	50	11970	25.06	50	21500	13.95	1.5/50
9730	30.83	7	15420	19.45	50			

I=Africa; II=No. America; III=Madagascar; IV=We. Africa; V=Australia; VI=Middle East; VII=Far East; VIII=So. America.

Time	kc/s	Areas	N.
05.00–08.00	5970, 11725	I	F.: 05.00, 06.00, 06.45, 07.45
	9730, 21500	II	
	15440	III/IV	E.: 05.15
08.30–09.15	15440, 21500	III	E.: 08.30, F.: 09.00
11.00–12.20	15440	V/IV	E.: 11.00, 12.00
	11970, 21500	I	F.: 11.30, P.: 11.45
11.00–12.00	15420	VI	
12.20–13.15	15440, 21500	VI/III	F.: 12.30, 13.00
13.30–15.15	17720, 21500	VII	F.: 13.30, 15.00. E.: 14.30
16.00–18.00	5970, 9770	I	F.: 16.00. E.: 17.00
	11970	III	
18.10–23.00	5970, 9770, 11725	I	E.: 18.10. P.: 18.45 F.: 19.00, 20.30, 22.00
19.00–20.00	9545	I	E.: 19.30
23.00–01.15	9625	VIII	P.: 23.30. F.: 00.00. Sp.:
23.00–03.00	11725	II	00.30, 02.00. E.: 01.15, 02.45

ANN.: F.: "Ici Brazzaville, Radiodiffusion-Télévision Française". E.: "This is Radio Brazzaville, The French Broadcasting Station in Africa". – P.: "Aqui Brazzaville, Radiodifusao Televisao Francesa". – Sp.: "Aqui Brazzaville, Radiodifusion Television Francesa en Africa Ecuatorial".
INT.-SIG.: Five different notes played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box. – V. by QSL-card or letter. R.p. – PUB.: Prgr. sched. monthly. Free upon request.

RADIO INTER EQUATORIALE (Go. – belongs to SORAFOM, Société de Radiodiffusion de la France d'Outre-Mer)
ADDR.: B. P. 228, Brazzaville.
L.P.: Dir.: M. Alexandre.
HOME SERVICE: W. 05.30–06.30, 11.00–12.30, 16.30–21.00. Sun. 07.00–21.00.

1484 kc/s	202,2 m	0.6 kW:		05.30–21.00
4795 –	62.57 –	4	– :	16.30–21.00
7295 –	41.15 –	4	– :	05.30–21.00
9545 –	31.43 –	4	– :	05.30–16.30
9545 –	31.43 –	50	– :	16.30–18.55

N. in French: 06.00 (W), 11.30, 18.15, 20.50.
ANN.: F.: "Ici Radio Inter Equatoriale, émettant de Brazzaville".
RADIO CONGO, Brazzaville. Experimental transmission to commence at the end of 1959. Times and freq. not yet fixed.

★ DAHOMEY (French West Africa) ★

L.T.: GMT+1 h. – Pr.L.: French, Vernaculars. – Po.: 1.700.000. – Rcvrs.: 4.000. – E.C.: 230/400 V., A.C., 50 c/s.

RADIO DAHOMEY (Go.)
ADDR.: Radiodiffusion de Dahomey, B.P. 366, Cotonou. – L.P.: Dir. Gen.: M. J. Bordenave. Dir. Tec.: V. Comlan.
HOME SCE. in French, Fon, Yoruba, Dendi, Bariba, Mina:

1475 kc/s	203 m	1 kW	W.:	05.30–06.30, 11.15–12.15 (Sat.
4870 –	61.60 –	4	–	12.00–13.00), 17.00–21.00 (Sat. 16.00–
7190 –	41.72 –	4	–	23.00). Sun.: 08.00–12.00, 16.00–21.00.

N.: French: D. 06.00, 11.40, 19.00. – Inf. in Vernaculars: D. 17.50–19.00. – Folklore: 17.00–17.50. – ANN.: "Ici Cotonou, Radiodiffusion de Dahomey émettant sur...". – INT.-SIG.: Dahomey Tam-Tam. – V. by letter.

★ EGYPT (United Arab Rep.) ★

L.T.: GMT+2 h. (Su. 1/5–30/9 GMT+3 h.). – Pr. L.: Arabic. – Po.: 24.000.000. – Rcvrs.: 1.000.000. – EC.: 110/220 V, A.C., 50 c/s.

CAIRO U.A.R. BROADCASTING SERVICE (Go.)
ADDR.: Offices & Studio Centre I: 4, Sherifein Str., Cairo. – Studio Centre II: 5, Elwi Str., Cairo. Cable: "Kahiradio." – L.P.: Dir. Gen.: M. A. Hammad. Dep. Dir. Gen.: S. Amer (Engineering). Dir. Prgr.: A. H. El-Hadidi. Dir. TV: A. H. Younes. Dir. Adm.: M. M. Taifour. Gen. Controller Foreign Rel.: M. El-Bassiouni. Dep. Dir. Transmitting: E. El-Kashlan. Dir. of Running: E. Fouad.

STATIONS: Medium Waves.

	kc/s	m	kW		kc/s	m	kW
Cairo III	557	538.6	50	Minia	1079	278.0	2
Cairo IV	620	483.9	300	Luxor	1079	278.0	2
Cairo I	773	388.1	50	Sohag	1142	262.7	2
Cairo V	818	366.7	300	Assouan	1178	254.7	2
Cairo II	926	324.0	100	Alexandria	1277	234.9	10
Assiout	980	306.1	2				

Short Waves: 50/70/90/100 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
6215	48.27	9795	30.62	11990	25.02	15330	19.57	15475	19.38
6250	48.00	9805	30.60	11995	25.01	15380	19.51	17915	16.75
7050	42.55	11665	25.72	12025	24.95	15385	19.50		
9475	31.66	11670	25.71	12030	24.94	15390	19.49		
9790	30.64	11985	25.03	15315	19.59	15465	19.39		

HOME SERVICE

MAIN ARABIC PRGRS. (daily):
04.00–07.00 on 773/1079/980/1142/1178/**9790**/**15390** kc/s
07.00–09.00 on 926/1079/980/1142/1178/**9790** kc/s.
*09.00–11.00 on 926/**9790** kc/s.
11.00–13.00 on 773/1079/980/1142/1178/**9790**/**15390** kc/s.
*13.00–14.30 on 818/**9790** kc/s.
*14.30–17.00 on 818/1079/980/1142/1178/**9790**/**15390** kc/sl.
17.00–23.30 on 773/818/1079/980/1142/1178/**9790**/**15390** kc/s.
*) exc. Fri.
Fri. only:
09.00–11.00 on 926/1079/980/1142/1178/9790/15390 kc/s.
13.00–14.45 on 818/9790 kc/s.
14.45–17.00 on 818/1079/980/1142/1178/9790/15390 kc/s.
National Music: D. 05.25, 06.15, 09.45, 10.03, 14.45, 17.45, 19.25. – **N.:** D. 04.25, 15.30, 14.00, 14.10, 15.00, 18.30, 21.00, 23.00.
T.S.: Cairo University clock at the beginning of the main News. Time Dots are announced each half hour, only between prgr. items, but not during any individual item.

VOICE OF ARABS:
03.00–04.20 on 926/7050/11670 kc/s. – 09.00–13.00 on 620/7050/11670 kc/s. – 13.00–14.00 on 620 kc/s. – 16.30–18.00 on 620/7050/11670 kc/s. – 18.00–23.00 on 620/7050/11670/15330 kc/s.
N. & Commentary: D. 03.20, 11.00, 13.30, 18.00, 22.30.

SUDANESE PRGR.:
04.30–05.30 on 926/7050/11670 kc/s.
14.00–16.20 on 620/7050/11670 kc/s.
N. & Commentary: D. 04.45, 05.00, 14.20, 14.55, 15.45, (Fri. 16.10).

SECOND PRGR. (Cultural): 19.00–22.00 on 926 kc/s.
POPULAR CULTURAL PRGR.: 15.30–19.00 on 926 kc/s.
ALEXANDRIA REG. PRGR.: 11.30–12.30, 16.00–19.00 on 1277 kc/s.
N.: D. 11.50, 17.30.

FOREIGN LANGUAGE PRGR. (Local service)
05.15–07.00, 10.30–12.30 on 557 kc/s. 14.00–17.00 on 773 kc/s. 17.00–21.30 on 557 kc/s. Fri., Sun. also 07.00–10.30 on 557 kc/s.
N. & Commentary:
English 18.00 – **French** 06.00, 12.00, 18.45 – **German** 16.00 – **Greek** 05.30, 17.00 – **Italian** 17.30.
Programmes:
English: Wed. 19.00–20.00, Fri. 19.05–20.00. – **French:** Sun. 10.30–11.30, Thurs. 19.00–20.00. – **German:** Sat. 16.15–16.45. – **Greek:** Tues. 14.00–15.00, Sat. 19.00–21.00. – **Italian:** Sat. 14.00–15.00, Tues. 19.00–20.00.

FOREIGN SERVICES

TO SOUTH & SOUTH EAST ASIA: On 17915 kc/s:
Arabic 11.00–11.30 – **Indonesian** 11.30–12.30 – **Malaya** 12.30–13.00 – **Bengali** 13.00–13.30 – **English** (to India) 13.30–14.30 – **Urdu** (to Pakistan) 14.30–15.00.
TO EAST AFRICA: On 17915 kc/s:
Sudanese accents 15.15–15.30 – **Swahili** 15.30–16.30 – **Amharic** 16.30–17.00 – **Somali** 17.45–18.30.
TO MIDDLE EAST: On 11990 kc/s:
Kurdish 15.15–16.00 – **Turkish** 16.00–16.45 – **Persian** 17.00–17.45.
TO EUROPE: On 11990 kc/s:
French 19.00–19.30 – **Arabic** 19.30–20.00 – **German** 20.00–21.00 – **Italian** 21.00–21.30 – **English** 21.30–22.30.
TO NORTH & SOUTH AMERICA:
Brazilian to So. America: 00.00–00.45 on 9790/15390 kc/s.
Spanish to So. America: 00.45–01.30 on 9790/15390 kc/s.
Arabic to So. & No. America: 01.45–02.45 on 15390 & 9790 kc/s.
TO ISRAEL: On 557 kc/s:
Hebrew 04.00–05.15, 15.00–17.00.
DICTATION SPEED NEWS: On 7050/11670 kc/s:
Arabic 06.00–06.30, 13.00–13.30. – **English** 06.30–07.00.
INT.-SIG.: Camel Bells. – **V.:** Reports wanted. They are answered by QSL-card. Reports should be addressed to Monitoring Dept.: Engineering Section, Egyptian Broadcasting, Cairo. – **PUB.:** Weekly and quarterly magazines in Arabic.

★ ETHIOPIA ★

L.T.: GMT+3 h. – **Pr.L.:** Amharic, Arabic, English, Somali. – **Po.:** 15.000.000. – **Rcvrs.:** 14.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

RADIO ADDIS ABABA (Go.)
ADDR.: Imperial Ethiopian Government, Ministry of Information, P.O. Box 1364, Addis Ababa. – **Cable:** "Ethiopress". – **L.P.:** Dir. Gen.: A. K. Asfaw. Dir. Prgr.: A. T. Abebe.
STATIONS: Addis Ababa.

6185 kc/s	48.50 m	1 kW		9620 kc/s	31.19 m	7.5 kW	
7290 –	41.15 –	3 –		15345 –	19.55 –	3 –	d.

D. PRGR.: On 6185/7290/9620 kc/s:
Amharic: 05.00–05.30, 06.30–07.30(Sun.), 11.00–12.00, 17.00–18.00. **N.:** 05.00, 10.00, 11.00, 11.45, 16.00. **Nat. Music:** 05.15, 10.30, 11.15, 17.15.
Somali: 10.00–13.15, 16.30–17.00. – **Arabic:** 16.00–16.15 & Sun. 08.15–09.00. **On 9620 kc/s: English: D.:** 10.15–11.00, 16.15–16.30 & Sun. music 10.00–11.00.
On 15345 kc/s: English: D. 18.15–19.00. N. & music.
International Music Prgr.: D. 19.00–21.00.
ANN.: Amharic: "Yih Addis Ababa Yemigegne Yeithopia Yeradio Tabia New". **English:** "This is R. Addis Ababa the Voice of Ethiopia". – **V.** by QSL-card. – **F.PL.:** Two 10 kW sw. tr's at the end of 1959.

ERITREA: AFRTS station: See USA.

★ GABON ★

L.T.: GMT+1 h. – **Pr.L.:** French, Vernaculars.

RADIO GABON (Go.)
ADDR.: B.P. 678, Libreville. – **L.P.:** Dir.: Mathieu
STATIONS: Libreville – m.w.: 1 kW; s.w.: 4 kW.
1520 kc/s 197.3 m – 5040 kc/s 59.52 m – 9690 kc/s 30.96 m Experimental transmissions.

★ GHANA ★

L.T.: GMT. – **Pr. L.:** English, Akan, Ewe, Dagbani, Ga, Hausa, French. – **Po.:** 5.500.000. – **Rcvrs.:** 101.000. – **E.C.:** 230/400 V, A.C., 50 c/s.

GHANA BROADCASTING SYSTEM (Go.)
ADDR.: Broadcasting House, P.O. Box 1633, Accra. **Cable:** "Broadcasts". – **L.P.:** Dir.: J. B. Millar, B.A., O.B.E. Dep. Dir.: B. Spio-Garbrah, B.A. Dir. Tec.: W. F. Coleman, B.Sc. Head of Prgr.: J. Ghartey. Head of N.: E. G. K. Adjorlolo, M.Sc.
HOME SERVICE:
3366 kc/s 89.12 m 20 kW: 05.30–08.00, 16.15–22.15 (Sat. 23.00) d*
4915 – 61.04 – 5 – : 05.30–08.00, 12.00–22.15 (Sat. 23.00) d*
9640 – 31.12 – 1.3 – : 12.00–16.15 d*. *Sun. 05.30–22.15.
N.: English: 06.00 (Home), 07.00 (African), 13.00 (Int.), 18.00 (Int.), 20.00 (African), 21.00 (Home). **Ghana Languages:** 12.15, 16.30. – **Wrp.:** 12.00, 17.45.
ANN.: "This is the National Service of the Ghana Broadcasting System" preceded by drumming or "This is R. Ghana, Accra". – **INT.-SIG.:** Guitar. – **V.** by letter. R.p. – **PUB.:** Weekly bulletin by request at the Revenue Offices of the wired rel. st., of which R. Ghana has 34 scattered throughout the country.

★ GUINEA (Rep.) ★

L.T.: GMT. – **Pr. L.:** French, Soussou, Fonlah, Malinké, Kissi, Toma, Guerzé. – **Po.:** 2.525.000. – **Rcvrs.:** 20.000. – **E.C.:** 230 V, A.C., 50 c/s.

RADIODIFFUSION NATIONALE (Go.)
ADDR.: B. P. 617, Conakry. – **L.P.:** Dir. A. Diop.
HOME SCE. in French, Vernaculars, English, Créole-English, Portuguese:
1403 kc/s 213.8 m 1 kW: W. 07.00–08.00 (exc. Thurs.), 12.15–
4910 – 61.10 – 4 – : 13.30 (Thurs. 14.00), 18.30–21.30 (Sat.
7125 – 42.11 – 4 – : 16.00–22.00). Sun. 10.00–13.45, 16.00–22.00.
N. in French: 07.15 (W), 10.15 (Sun.), 12.45, 20.00. – **N. in English:** Sat. 18.00–18.20. – **N. in Creole-English:** Sun 18.05–18.30. – **N. in Portuguese:** Sun. 17.40–18.00. – **Vernaculars:** D. 18.30–19.55.
ANN.: F.: "Ici Conakry, Radiodiffusion de la République de Guinée". – **INT.-SIG.:** First movement of the popular melody "Alpha Yaya" on guitar). – **V.** by letter.

★ GUINEA (Portuguese) ★

L.T.: GMT+1 h. – **Pr. L.:** Portuguese. – **Po.:** 547.000. – **Rcvrs.:** 1434.

EMISSORA DA GUINÉ (Go.
ADDR.: Emissora da Guiné, Bissau.
L.P.: Pres: Eng. N. A. de Sousa Drummond Borges.
HOME SCE.: CMQ 7948 kc/s 37.75 m 1 kW: 13.00–14.00 (Sun. only), 21.00–23.00.
ANN.: "Aqui Bissau, Emissora da Guiné Portuguesa". – **INT.-SIG.:** "Variations in D-minor" by A. Paredes played on guitar. **V.** by QSL-card.

★ GUINEA (Spanish) ★

L.T.: GMT+1 h. – **Pr.L.:** Spanish. – **Po.:** 209.000. – **Rcvrs.:** 1300.

EMISORA DE RADIODIFUSION SANTA ISABEL (Go.)
ADDR.: Apartado de Correos no. 195, Santa Isabel.
D. Prgr.: W.: 06.30–07.30, 12.00–14.00, 17.00–21.00. Sun.: 12.00–14.30, 18.30–20.30.
Santa Isabel 7160 kc/s 41.90 m 0.5/5 kW. – **N. in Sp.:** W. 13.15–13.30. **French:** 18.45–19.15. **Portuguese:** 18.00–18.30. **Bubi & Pamue:** 17.00–18.00. – **INT.-SIG.:** Opening: "Los Voluntarios". Close down: Spanish National Hymn. – **ANN.:** "Aqui Emisora de Radiodifusión de Santa Isabel de Fernando Poo". – **V.** by letter.

RADIO ECUATORIAL (Go.)
ADDR.: Apt. 57, Bata, Provincia de Rio Muni. – **L.P.:** Dir.: F. de Anta Franco.
HOME SCE.: 7800 kc/s 38.50 m 0.4 kW: 11.00–13.45, 18.00–21.00.
ANN.: "Aqui Radio Ecuatorial Bata, Emisora de Rio Muni". – **V.** by QSL-card.

R. CALATRAVA, Calatrava, Rio Muni.
HOME SCE.: 6670 kc/s 45.00 m 17.00–20.55.
INT.-SIG.: closes with rendition of "Ave Maria".

★ IVORY COAST (French West Africa) ★

L.T.: GMT. – **Pr. L.:** French, Vernaculars. – **Po.:** 3.091.000. – **Rcvrs.:** 31.500. – **E.C.:** 230 V, A.C., 50 c/s.

RADIO ABIDJAN (Go.)
ADDR.: Radiodiffusion de la Côte d'Ivoire, B.P. 2261, Abidjan. – **L.P.:** Dir. Thiam.
HOME SERVICE in French and Vernaculars:
1493 kc/s 201 m 4 kW } W. 06.30–08.00, 12.15–13.30, 17.45–23.30 –
4940 – 60.72 – 10 – } Sat. 06.00–08.00, 12.15–24.00. – Sun. 07.15–
7215 – 41.58 – 25 – } 20.30.
N.: French: 06.45, 12.45, 18.00, 20.00. **Vernaculars:** 17.45,–18.30 (Mossi, Djoula, Ebrié, Bété, Baoulé).
ANN.: "Ici Abidjan, Radiodiffusion de la Côte d'Ivoire émettant sur…". – **INT.-SIG.:** First 10 bars of the Allobroges. – **V.** by QSL-card. R.p.

★ KENYA (British) ★

L.T.: GMT+3 h. – **Pr. L.:** English, Swahili, Gujerati, Kikuyu, Luo, Kamba, Hindustani. – **Po.:** 6.351.000. – **Rcvrs.:** 100.000. – **E.C.:** 220/440 V, A.C., 50 c/s.

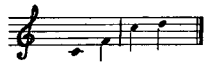
KENYA BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 621, Nairobi. **Cable:** Broadcasts, Nairobi. – **Coast Regional:** P. O. Box 584, Mombasa. – **Cable:** Broadcasts, Mombasa. – **West Kenya Regional:** P.O. Box 844, Kisumu. – **Cable:** Broadcasts, Kisumu.
L.P.: Dir.: C. P. Jubb. Dir. Tec.: G. Phillips. Dir. Prgr.: A. M. Dean. **Coast Regional:** Reg. Contr.: R. Watkins-Pitchford. – **West Kenya Regional:** Reg. Contr.: G. A. Burke-Collis.

HOME SERVICES

English National (Nairobi):
863 kc/s 347.7 m 10 kW } W. 03.15–06.00, 09.00–11.00, 13.00–20.00. –
4885 – 61.41 – 10 – } Sat. 03.15–06.00, 09.00–21.00. Sun.: 04.00–
7240 – 41.44 – 10 – } 23.00.
FM: 93.9 mc/s.
Asian National (Nairobi):
683 kc/s 439.2 m 2 kW } W. 03.30–05.00, 09.30–11.00, 14.00 (Sat.
4855 – 61.79 – 6 – } 13.00)–20.00. Sun.: 05.00–11.00, 13.00–
7150 – 41.96 – 6 – } 19.30.
African National (Nairobi):
750 kc/s 400.0 m 10 kW } W. 03.00–04.30, 10.00–11.00, 14.00–19.30,
4934 – 60.80 – 10 – } (Sat. 20.00). Sun. 04.00–11.00, 14.00–19.00.
7210 – 41.61 – 10 – }
Coast Regional (Mombasa):
791 kc/s 379.2 m 5 kW } W.: 03.00–04.45, 15.00–20.00. Sun. 06.30–
4965 – 60.42 – 5 – } 11.00, 15.00–20.00.
7180 – 41.78 – 5 – }
West Kenya Regional (Kisumu):
620 kc/s 483.9 m 5 kW } W.: 03.30–04.45, 09.30–10.30, 13.00–18.15.
4804 – 62.45 – 5 – } Sun.: 11.00–18.15.
7288 – 41.16 – 5 – }

ANN.: All transmissions are regularly identified by the words "Kenya Broadcasting Service" preceeded by the appropriate national or regional service identity. – **V.** by letter.
INT.-SIG.: Sounds of African birds.

FORCES BROADCASTING STATION (British Forces)
ADDR.: British Forces P.O. 10, Nairobi. – **L.P.:** St. Commander: Miss W. Barnes
STATIONS: 1448 kc/s 207 m 1 kW – 6112 kc/s 49.08 m 0.25 kW
HOME SERVICE: English: Mo., Tues., Thurs. & Fri.: 03.00–05.15, 09.30–11.15, 13.00–20.00. Wed. & Sat. 03.00–05.15, 09.30–20.00. Sun. 04.00–20.00. – **ANN.:** "This is the Forces Broadcasting Station East Africa". – **INT.-SIG.:**



★ LIBERIA ★

L.T.: GMT+3/4 h. – **Pr.L.:** English, Liberian Vernaculars. – **Po.:** 2.000.000. – **Rcvrs.:** 10.000. – **E.C.:** 200 V., A.C., 50 c/s.

RADIO STATION ELWA (Non-comm., Missionary Broadc. Sce. of the Sudan Interior Mission).
ADDR.: ELWA Radio Village, Box 192, Monrovia. – **Cable:** "Evangel. Liberia". – **L.P.:** St. Mgr.: Rev. R. G. de la Haye. Dir. Tec.: H. Ries. Dir. Prgr.: D. Reed. Dir. Press.: A. Snyder. Dir. African Languages: W. Thompson.
STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
710	422	1	11745	25.54	10d	21535	13.93	½d
4770	62.89	10d	15120	19.84	1d			

HOME SCE. on 710 kc/s:
W. 06.45–09.15, 16.15–22.15 (Sat. 22.45). Sun. 07.15–10.45, 16.15–23.15. – **African dialects:** W. 08.45–09.15, 16.15–18.00. Sun. 07.15–08.15. **Other prgr's in English.** – **N. in English:** W. 07.00, 18.00, 20.00 (BBC and African N.), 20.45 (Liberian N.). Sun.: 20.00 (BBC and African N.).
FOREIGN SCE.:
English: D. 05.30–06.00 on 11745/15120/21535 kc/s – W. 06.45–08.45, Sun. 08.15–10.45 on 4770/21535 kc/s – D. 16.45–18.30 (Sun. 19.30, Mo. 18.15) on 11745/21535 kc/s – D. 19.45–21.00 (Sun. 21.15) on 4770 kc/s. – Mo., Wed., Thurs., Fri. 21.45–22.15, Sun. 21.45–23.15, Sat. 21.45–22.45 on 4770 kc/s. – **N.** As Home Sce.
French: D. 06.00–06.30 (Sun. 07.00): on 11745 kc – W. 19.00–19.30: 11745/21535 kc – D. 21.00 (Sun. 21.15)–21.45: 4770 kc.
Portuguese: Tues. 21.30–22.30 on 4770 kc/s.
Arabic: Tues., Wed., Fri., Sat. 18.30–19.00: 11745/21535 kc.
Amharic: Mo., Thurs. 18.30–19.00: 11745/21535 kc/s.
Nigerian Languages: D. 06.00–07.45: 15120 kc/s – D. 16.15 –16.45 and Mo. 18.15–18.30: 11745 kc/s.
Ghana Languages: Sun. 07.15–07.45: 4770/21535 kc/s.
Sierra Leone Languages: Fri. 08.45–09.15: 4770/21535 kc/s.
ANN.: Home Sce.: "This is ELWA Radio Village, broadcasting from Monrovia, Liberia". **Foreign Sce.:** "This is ELWA Radio Village broadcasting from Monrovia, Liberia". **F.:** "Ici ELWA Radio Village, Monrovia, Liberia".
V. by QSL-card or letter. R.p. appreciated. – **PUB.:** R. News Bulletin quarterly, Prgr. sched. every six months, free on request. – **F.Pl.:** 50 kW s.w. tr. early 1960.

LIBERIAN BROADCASTING CORPORATION (Comm.)
ADDR.: Liberian Broadcasting Corporation, Monrovia. – **L.P.:** Gen. Mgr.: Kim Jackson.
HOME SCE. in English:
650 kc/s 461.5 m 10 kW – 3255 kc/s 92.17 m 10 kW
6090 – 49.26 – 10 – –
ANN.: E.: "This is the Liberian Broadcasting Corporation E.L.B.C. – The Voice of Liberia." – **V.** by letter.

★ LIBYA ★

L.T.: GMT+2 h. – **Pr. L.:** Arabic. – **Po.:** 1.200.000. – **Rcvrs.:** 200.000. **E.C.:** 125/130/220 V., A.C., 50 c/s.

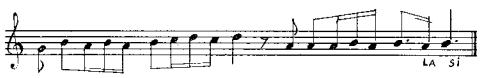
L BYAN BROADCASTING SERVICE (Go.)
ADDR.: P. O. Box 333, Tripoli. – **Cable:** Idaalibya. – **L.P.:** Dir. Gen.: Ess. Fuad Kabazi. Prgr. Cons.: J. Reilly. Dir. Tec.: B. Banks.
STATIONS:
Tripoli 1052 kc/s 285.1 m 50 kW – Tripoli 6140 kc/s 48.86 m 2 kW Benghazi 1484 kc/s 285.1 m 2 kW – 7180 kc/s 41.78 m 3 kW.
D. PRDR.: 05.00–06.00, 16.30–21.15. – **N.:** 05.45, 18.15, 19.30, 21.00. – **Wrp.:** 05.45. – **Nat. Music:** 05.30–05.45 (06.30). – **ANN.:** "Hadihi dár idáa Libia". – **V.** by QSL-card or letter.

FORCES BROADCASTING STATION No. 1 (British Forces).
ADDR.: No. 1 Forces Broadcasting Station, B.F.P.O. 57, Tripoli. – **L.P.:** St. Commander: R. L. Angove, ALCH. Prgr. Officer: P. K. Holwill. Techn. Officer: L. Allen.
STATION: 1394 kc/s 215 m 7.5 kW.
D. PRGR. in English: 05.30–07.30, 11.30–22.00. – **ANN.:** "This is the Forces Broadcasting Service Tripoli". – **V.** by QSL-card. R.p.
ARMED FORCES RADIO and TV-S.C.E: see U.S.A.

★ MADAGASCAR (French) ★

L.T.: GMT+3 h. – **Pr.L.:** French, Malgache. –**Po.:** 5.184.000. – **Rcvrs.:** 55.000. – **E.C.:** 110/220 V., A.C., 50 c/s.

RADIODIFFUSION DE MADAGASCAR
ADDR.: B.P. 442 Tananarive. – **L.P.:** Dir. Souchet. Dir. Tec.: Leruste. Dir. French Prgr.: Guillon. Dir. Malgache Prgr.: Rabesahala. Dir. News: Lacarrieu.
HOME SERVICE:
French: Mo.-Fri. 03.30-05.30, 09.00–11.00, 15.00–19.00. Sat. 03.30–05.30, 09.00–19.30. Sun. 04.00–19.30.
1394 kc/s 215.20 m 1 kW – 7260 kc/s 41.32 m 4 kW – 9515 kc/s 31.50 m 4 kW – 5010 kc/s 59.88 m 4 kW.
Malgache: W. 03.30–05.00, 09.00–11.00, 15.00–18.00. Sat. 03.30–05.00, 09.00–18.30. Sun. 04.00–11.00, 15.00–18.00.
1502 kc 199.7 m 1 kW – 3232 kc 92.82 m 4 kW – 7155 kc 41.92 m 4 kW
ANN.: "Ici Tananarive, Radiodiffusion de Madagascar" and "Voici notre émission de la journée diffusée sur les longueurs suivantes...".
INT.-SIG.: "O... Raketaka". – **V.** by QSL-card.



★ MAURITIUS (British) ★

L.T.: GMT+4 h. – **Pr. L.:** English, French, Hindi, Chinese, Creole Dialects. – **P.:** 603,466. – **Rcvrs.:** 30.387. – **E.C.:** 230 V., A.C. 50 c/s.
MAURITIUS BROADCASTING SERVICE (Go.)
ADDR.: Broadcasting House, Pasteur St., Forest Side. – **L.P.:** Mgr.: L. C. de Chazal. Dir. Tec.: C. N. Stansfield.
HOME AND DEPENDENCIES:
1364 kc/s 220 m 5 kW } W. 03.00–04.15, 08.00–09.30,
3325 – 90.23 – 1.5 – or } 13.00–17.30. Sun. 03.00–08.35,
6101 – 49.17 – 1.5 – } 13.00–17.30.
French/English: W. 03.00–04.15, 14.30–17.30. Sun. 03.00–08.30. **French:** D. 08.00–09.30. Sun. 14.30–17.30. **Hindustani:** D. 13.00–14.30. **N. in French:** 03.30, 08.30, 15.00, 17.25. – **N. in English:** 04.00. – **N. in Hindustani** – **Mbg.** (for Mauritians Overseas): Sun. 07.20. – **Wrp.:** 08.35, 13.10. – **Prgrs. in various other languages:** Sun. 08.30–09.15. Mo. 13.00–13.30, Tues. Thurs. 09.30–10.15. Wed. 09.30–10.00.
ANN.: E.: "This is the Mauritius Broadcasting Service". **F.:** "Ici de M.B.S. postede radiodiffusion de l'Ile Maurice". – **V.** by letter.

★ MOROCCO ★

L.T.: GMT. – **Pr. L.:** Arabic, French, Spanish, English, Berber. – **Po.:** 10.000.000. – **Rcvrs.:** 512.000. – **E.C.:** 110/220 V., A.C. 50 c/s.
RADIODIFFUSION MAROCAINE (Go.)
ADDR.: 1, rue Coli, Rabat. **Cable:** "Radio Maroc". – **L.P.:** Dir. Gen.: M. Elmankjra. Dir. Tec.: M. Berrada.
FIRST NETWORK: Arabic: W. exc. Fri.: 06.30–10.00, 12.00–15.00, 18.00–24.00. Fri.: 06.30–16.30, 18.00–24.00. Sun.: 06.30–15.00, 18.00–24.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa Aioun	611	491	140	Rabat	917	327	0.25
Casablanca	818	367	1	Agadir	1025	293	1
Oujda	818	367	1	Tanger	1016	295	1

SECOND NETWORK: French, Spanish, English, Berber: W. 06.45–09.00, 12.00–15.00, 16.30–24.00, Sun.: 07.30–15.00.

	kc/s	m	kW		kc/s	m	kW
Sebaa Aioun	701	428	140	Rabat	1295	232	0.25
Casablanca	1187	253	1	Agadir	1295	232	1
Oujda	1187	253	1				

French: W. 06.45–08.00, 19.45–23.00. Sun. 07.30–10.00, 12.30–14.00. – **Spanish:** W. 08.00–09.00, 14.00–15.00, 23.00–24.00. Sun. 10.00–11.00, 14.00–15.00. – **English:** D. 12.00–12.30, W. 19.30–19.45. – **Berber:** W. 16.30–19.30. – **International Prgr.:** Sun. 11.00–12.00.
THIRD NETWORK: Berber:
Rabat 1043 kc/s 288 m 20 kW D. 12.00–14.30.
FOREIGN SCE. in Arabic:
15185 kc/s 19.76 m 50 kW 12.30–14.30. To East.
15345 – 19.55 – 10 – 12.30–14.30. To South.
ANN.: F.: "Ici Rabat Radiodiffusion Marocaine". **E.:** "This is the Maroccan Broadcasting System Rabat". **Sp.:** "Aqui Rabat Radiodiffusion Maroqui". **In Arabic & Berber:** "Ici Rabat Radiodiffussion du Royaume du Maroc."
V. by letter and QSL-card. – **PUB.:** Monthly Magazine in Arabic.
RADIO DERSA (Comm.)
ADDR.: Empresa "Torres Quevedo" S.A., Generalisimo Franco 15, Tetuan. – **L.P.:** Dir. Gen.: Conde de Marsal. Dir. Prgr.: J. Maestre. Dir. Adm.: A. de Molina. Dir. Tec.: M. Picardo.
HOME SCE.:
827 kc/s 362.8 m 20 kW: **Arabic:** 13.00–15.00. **N.:** 14.00.
Spanish: 19.30–23.30. **N.:** 22.00.
917 – 327.1 – 5 – } **Spanish:** 13.00–15.00. **N.:** 14.30.
6067 – 49.45 – 1 – } **Arabic:** 20.00–21.00.
ANN.: Sp.: "Aqui Radio Dersa-Tetuán". – **Arabic:** "Huna Radio Dersa Tetuán". – **V.** by QSL-card.
ARMED FORCES RADIO T.V. SCE.: See USA.

TANGIER
L.T.: GMT. – **Pr.L.:** French, Spanish, Arabic, English. – **Po.:** 175.000. – **Rcvrs.:** 20.000. – **E.C.:** 110/220 V., A.C., 50 c/s.
RADIO-AFRICA-MAGHREB (Comm.)
ADDR.: 9 rue de Russie, Tangier. – **Cable:** "Rafrica". – **L.P.:** Adm.: J. de Bournet. Dir. Gen.: L. Lartigau. Dir. Prgr.: G. Marquet. Dir. Press, Inf.: P. Gimel. Dir. Adm.: P. Joubert. Dir. Tec.: A. Koller. Secr. Prgr.: J. Bonis. Arabic Dept.: M. Tazi. English Dept.: H. Bent. Spanish Dept.: T. Gomez. Listeners Sce.: L. Sillero.
HOME SERVICE: 935 kc/s 321.1 m 200 kW.
W.: 07.00–09.00, 11.45–15.30, 17.15–24.00. Sun. 07.45–24.00.
English, French, Spanish: 07.00–09.00, 11.45–15.30, 19.45–22.00. – **Arabic:** 17.15–19.45, 22.00–24.00. – **N. Commentary:** Every half hour. – **Wrp.:** 08.10, 13.10, 20.10. – **Request Prgr.:** Sun. 10.00–11.15.
ANN.: F.: "Ici Radio-Africa-Maghreb, émetteur de Tanger". **E.:** "This is Radio Africa Maghreb". **Sp.:** "Aqui Radio Africa Maghreb".
INT.-SIG.: Bell. – **V.** by QSL-card. – **PUB.:** Monthly: "Radio Africa".
RADIO-AFRICA-TANGER (Comm.)
ADDR.: 9 rue de Russie, Tanger. – **Cable:** "Rafrica". – **L.P.:** Deputy Adm.: J. de Bournet. Gen. Secr.: C. Caravaca. Comm. Mgr.: P. Benoit. Chief Eng. Dept.: J. Horat. French Dept.: J. Bonis. Arabic Dept.: M. Tchioua. Listeners Sce.: H. Blanco. Press. and Inf.: T. Gomez.
HOME SERVICE: 593 kc/s 506 m 20 kW.
W.: 07.00–09.00, 11.45–15.30, 17.15–24.00.
English, French, Spanish: 13.45–15.30, 17.30–20.00, 21.00–24.00. **Arabic:** 07.00–09.00, 11.45–13.45, 20.00–21.00.
ANN.: F.: "Ici R.-Africa-Tanger". **Sp.:** "Aqui R. Africa Tanger". **E.:** "This is R. Africa Tangier". – **INT.-SIG.:** Bell. – **V.** by QSL-card.
RADIO-INTER-AFRICA (Comm.)
ADDR.: 9 rue de Russie, Tangier. – **Cable:** "Rafrica". – **L.P.:** Deputy Adm.: J. de Bournet. Gen. Mgr.: L. Lartigau. Dir. Prgr.: J. Tellez. Dir. Press and Inf.: P. Bardin. Dir. Adm.: J. Oger. Chief Eng. Dept.: G. Furrer. Secr. Prgr.: M. Martin. Arabic Dept.: A. Haras. Publicity Dept.: G. Beaudry.
SHORT WAVE SERVICE
For Europe: "Radio-Inter-Africa":
Stations: 15/120 kW: 9630 kc/s 31.15 m – 11825 kc/s 25.37 m – 15285 kc/s 19.53 m.
D. PRGR.: 17.15–24.00 in **English, French, Finnish, German, Norwegian, Spanish, Swedish, Danish.**
For West Africa: "Radio-Inter-Africa":
Station: 120 kW: 15285 kc/s 19.63 m.
D. PRGR.: 12.00–15.00 in **French, English, "Pidgin English".**
ANN.: E.: "This is Radio-Inter-Africa". **F.:** "Ici Radio-Inter-Africa". **Sp.:** "Aqui Radio-Inter-Africa". **G.:** "Hier ist Radio-Inter-Africa". **V.** by QSL-card. R.p.
PAN AMERICAN RADIO, TANGIER (Comm.)
ADDR.: Pan American Broadcasting System, Tangier – International Television R. Tangier. – **Studios:** 16 rue Delacroix, Tangier. – **Management:** 7–9 rue Goya, Tangier. – **Cable:** Panamericana. – **L.P.:** Pres. Dir.: J. Suriñach Oller. Secr.: N. J. Anderson. Dir. Tec.: A. Orellaña. Dir. Prgr. (p.i.): A. P. Perez-Reina. Dir. Arabic Sec.: A. Guennouny. Dir. English Sec.: N. Hollyer. Dir. French Sec.: J. Amar.
HOME SCE. in Spanish, Arabic:
1128 kc/s 266 m 5 kW: 09.00–01.00*) – 7290 kc/s 41.15 m 3 kW: 09.00–01.00. – 14500 kc/s 20 m 3 kW (not in use) – 575 kc/s 522 m 5 kW (not in use). *) Is planned to be increased to 50 kW.
D. PRGR.: Spanish: D. 09.00–16.00, 19.15–01.00. **Arabic:** D. 16.00–19.15. – **N.:** 09.02 (local), 14.00 (BBC), 14.07 (R. Nac. de España), 14.20 (local), 21.15 (R. Nac. de España). – **Wrp.:** 14.15, 20.30. – **Special d. prgr. for Gibraltar:** "La Voz de Gibraltar" 12.00. – **T.S.** Every h.
ANN.: Sp.: "Aqui Pan American Radio, La Voz de Tanger". – **Arabic:** "Ici Pan American Radio La Voix de Tanger, Maroc" (in Arabic).
INT.-SIG.: "Bim-Bam-Bum". – **V.** by QSL-card.
PAN AMERICAN RADIO INTERCONTINENTAL
1594 kc/s 188 m: **Arabic:** 16.00–19.00. – **English:** 19.00–20.00. – **French:** 20.00–21.00. – **N.:** 20.30. – **Wrp.:** 20.15. – **T.S.:** Every h.
ANN.: Arabic: "Ici Pan American Radio Intercontinentale La Voix de Tanger, Maroc". – **E.:** "This is Pan American Radio Intercontinental, the Voice of Tangier". – **F.:** "Ici Pan American Radio Intercontinentale, la Voix de Tanger". – **INT.-SIG.:** "Bim-Bam-Bum". – **V.** by QSL-card.
R. TANGER. COMMERCIAL BROADCASTER.
Soc. Africana de Radiodifusion.
ADDR.: 34, Goya Street, Tangier, Morocco. – **Cable:** "Radiointer". **L.P.:** Pres. of the Board: Antonio Garrigues. Secr. of the Board: Virgilio Onate. Man. Dir.: H. R. Southworth. Adm. Dir.: A. Cuetos-Martinez. Tec. Dir.: Jésus Martin Cordova. Dir. Arabic Section: Sidi Mustapha Abdullah.
STATIONS:
R. Tanger 1232 kc 243.5 m 50 kW (120 kW for No.Af.) – 6110 kc 49.10 m 2 kW.
French: 07.00–09.00, 11.30 16.00, 20.00–21.30. – **N.:** 07.15, 08.00, 08.50, 12.00, 13.00, 14.00, 15.00, 20.00, 21.20.

Arabic: 09.00–11.30, 17.30–20.00, 21.30–24.00. – **N.:** 10.00, 11.00, 17.45, 18.30, 19.55, 21.45, 22.30.
R. Tanger: 1079 kc 278 m 10 kW: **Spanish:** 10.00–11.30, 13.30–18.00, 18.30–24.00. **N.:** 14.00, 21.00. – **English:** 18.00–18.30. **N.:** 18.20. – **Arabic:** 11.30–13.30. **N.:** 13.00.
Religious prgr.'s in French, English, Spanish on s.w. and m.w. and in 22 languages Mo. through Fri. on following wave bands: 19, 25, 31, 41 m.b. (10 kW), 49 m.b. (2 & 10 kW).
ANN.: F.: "Ici Radio Tánger". – **Sp.:** "Aqui Radio Tánger". – **E.:** "This is Radio Tangier". – **Arabic:** "Houna mahatatou Tangea".
V. by QSL-card or letter.

THE VOICE OF TANGIER (Missionary)

under the direction of International Evangelism, Inc., Greensboro, N.C., U.S.A. is a missionary radio station, dedicated exclusively to the broadcasting of the Gospel of our Lord and Saviour Jesus Christ and is maintained by free-will contributions.

ADDR.: The Voice of Tangier, P.O. Box 2219, Morocco.
LP.: Pres.: Rev. Paul Freed. Mgr.: Rev. P.J. Pietsch, Jr. Dir. Tec.: G. Preston.
D. PRGR.: 10 kW

	kc/s				kc/s		
English:	11766	D.	20.30–23.00	**German:**	9767	D.	20.00–20.30
French:	11766	D.	20.00–20.15	**Russian:**	9767	D.	19.00–19.30
Norwegian:	9767	D.	20.30–21.00	**Spanish:**	7230	D.	13.00–13,30
German:	9767	D.	06.15–06.45				
Portuguese:	7230	D.	12.45–13.00				

C. & Ea. European Languages. 9767 kc/s D. 19,30–20.00. Prgr. schedule and frequencies subject to change.
ANN.: "This is the Voice of Tanger". – **F.:** "Ici la Voix Evangélique de Tanger". – **G.:** "Hier ist die Stimme von Tanger". – **Sp.:** "Esta es La Voz Evangelica en Tanger". – **P.:** "Esta é a Voz Evangelica de Tanger". – **INT.-SIG.:** Religious music. – **V.:** by QSL-card and letter. – **PUB.:** Prgr. schedule will be sent by request.

VOICE OF AMERICA RADIO STATION IN TANGIER

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Tangier 35/50/100 kW: 02.00–08.30, 12.00–23.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
7205	41.64	11765	25.50	15230	19.70	17705	16.94
7235	41.47	11785	25.46	15235	19.70	17750	16.90
9555	31.40	11870	25.27	15290	19.62	17800	16.85
9585	31.30	11875	25.26	15295	19.61	17830	16.83
9615	31.20	11890	25.23	15320	19.58	17855	16.80
9620	31.19	11895	25.22	15380	19.51	21455	13.98
9740	30.80	11900	25.21	15405	19.47	21680	13.84
9755	30.63	15130	19.83	15415	19.46	21705	13.82
11760	25.51	15205	19.69	15425	19.45	25880	11.60

D. PRGR.: Short Wave. See U.S.A.
ANN.: "This is the Voice of America Transmitter, Tangier".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. – **V.** by QSL-card.

★ MOZAMBIQUE (Portuguese East Africa) ★

L.T.: GMT+2 h. – **Pr. L.:** Portuguese, English, French, local dialects, Afrikaans. – **Po.:** 6.105.000. – **Rcvrs.:** 38.000. – **E.C.:** 220 V., A.C., 50 c/s.

RADIO CLUBE DE MOÇAMBIQUE (Non-profit organization)

ADDR.: P.O. Box 594, Lourenço Marques. – **Cable:** Radioclube. – **L.P.:** Dir. Gen.: Capt. António dos Santos Figueiredo. Mgr.: Capt. João Pinheiro. Dir. Tec.: V. Rodrigues. Chief Portuguese Prgr.: C. A. Teixeira. Chief English Prgr.: D. Davies.
STATIONS: 100, 10, 7.5, 5 kW alternating. Call: CR7—
PORTUGUESE NETWORK: W. 05.00–06.00, 09.30–11.45, 15.30–20.30. Sun. 05.45–12.00, 13.00–20.30.

Call	kc/s	m	kW	h. of tr.
BO	737	407.0	10	05.00–06.00, 09.30–11.45, 15.30–20.30
–	3250	92.31	5	17.00–20.30
BU	4924	60.92	7.5	15.30–20.30
CC	9656	31.06	7.5	until 11.45 (Sun. 12.00), Sun. 13.00–15.30
BG	15152	19.80	5/10	until 11.45 (Sun. 12.00), 15.30–18.00

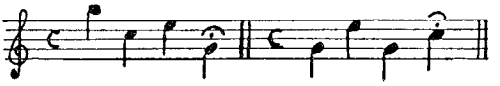
N.: 10.30, 11.00, 18.00, 20.15. – **Request:** D. 15.35–17.00. Sat., Sun. 09.30–12.00. – **Wrp.:** 10.30, 16.30. –
ANN.: On the h.: 4 notes on gong followed by "Aqui Rádio Moçambique, fala-vos o Rádio Clube em Lourenço Marques, trabalhando nas ondas...". – **V.** by QSL-card.
ENGLISH/AFRIKAANS NETWORK: Beamed to So.Af., Rhodesia, Nyasaland, Belgian Congo: 03.30 (Sun. 4.50)–21.00 (Sat. 22.00).

Call	kc/s	m	kW	h. of tr.
SR	917	327.0	100	W. 03.30–05.30; D. 15.30–21.00.
BM	3221	93.13	7.5	03.30–04.30, 17.00–21.00 (Sat. 22.00)
AB	3301	90.88	7.5	20.00–21.00
BV	4840	61.98	10	03.30–05.00 (W), 15.00–21.00
–	4859	61.74	7.5	20.00–21.00
–	7254	41.35	7.5	03.30 (Sun. 04.55)–17.00
DE	9620	31.19	7.5	05.00 (Sun. 04.55)–15.00
–	11760	25.51	7.5	03.30 (Sun. 04.55)–19.00
BG	15097	19.87	5	09.00–13.00

Request: 05.00–06.00 (Sun. 06.30), 07.00–08.45 (Sun. 09.00), 10.00–11.00, 12.00–13.00, 14.00–16.15, 19.30–20.30.
ANN.: Every quarter-hour and half-our 4 notes on gong followed by "Aqui Lourenço Marques, Radio Clube de Moçambique, trabalhando en ondas curtas e onda media. This is the Radio Clube of Moçambique – Lourenço Marques for Happy Listening in the ... meter bands."
FRENCH PRGR. on 15152 kc/s: Tues. & Fri. 18.00–19.00 for C. Africa & Congo.
NATIVE NETWORK: Sun. 06.30–09.00. Sun. & Thurs.: 16.00–19.00.

Call	kc/s	m	kW	h. of tr.
–	1223	245.0	1	as above
CA	3406	88.07	5	Sun., Thurs. 16.00–19.00
–	7238	41.44	5	Sun. 06.30–09.00

INT.-SIG.: Gong. – **V.** by QSL-card. – **PUB.:** Monthly: Radio-Moçambique.



BRANCH STATIONS: 0.25 kW.
Nampula: Portuguese: W. 10.00–11.30, Sun. 07.00–09.30 on 9525 kc/s 31.50 m. – D. 16.30–19.30 on CR7XD 4855 kc/s 61.79 m.
Native Dialects: Sun. 16.00–19.00 on 5100 kc/s 58.82 m.
Quelimane: Portuguese: W. 10.15–12.00, Sun. 08.00–12.00, 13.00–15.00 on 9586 kc/s 31.29 m. D. 16.30–19.00 on 4775 kc/s 62.83 m (CR7XB).

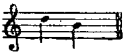
EMISSORA DO AERO CLUBE DA BEIRA (Pr. Comm.)

ADDR.: C. P. no. 3, Beira. – **L.P.:** Dir. Gen.: Eng. A. Pinto. Dir. Adm.: L. Rodrigues. Dir. Tec.: H. Ataide. Dir. Prgr.: F. Biscaia.
HOME SCE. in Portuguese:
1430 kc/s 210 m 5 kW – 3255 kc/s 92.15 m 0.3 kW.
7255 kc/s 41.35 m 0.3 kW.
Mo.-Fri. 09.30–11.30. Sat. 09.30–12.00. Sun. 07.00–12.30 on all frequencies. On 1430, 3225 kc/s also D. 16.00–20.00. – **N.:** W. 10.00, 18.00. – **Wrp.** 18.15. – **Nat. Music:** W. 10.15, 16.15. Sun. 09.00, 16.00.
ANN.: "Radio-Moçambique-fala-vos a Emissora do Aero Clube da Beira". – **INT.-SIG.:** Two Chimes (do–la). – **F.PL.:** SW.tr. 9755 kc/s 0.3 kW – 0.3 kW tr. increased to 1 kW.

RADIO PAX (Religious. Owned by Franciscan Fathers)

ADDR.: C.P. 594, Beira. – **L.P.:** Dir.: Father E. Costa. Dir. Tec.: Eng. C. Roca.
HOME SERVICE in Portuguese: W. 16.30–19.30, Sun.: 05.45–07.00, 09.30–11.30, 16.00–19.30.
CR7RA 3952 kc/s 75.91 m 0.375 kW:
CR7RB 7205 – 41.64 – 0.05 – : Irregular.
ANN.: "Aqui Beira fala-vos Radio Pax, Emissora Catolica de Moçambique". – **INT.-SIG.:** 2 chimes. Prgr's open with a religious choir.

V. by letter. – **F.PL.:** Increase of power to 10 kW

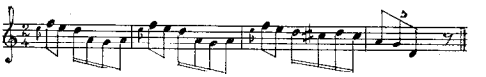


★ NIGER (French West Africa) ★

L.T.: GMT+1 h. – **Pr. L.:** French, Hausa, Djerma. – **Po.:** 2.425.000. – **Rcvrs.:** 4.000. – **E.C.:** 220/400 V, A.C., 50 c/s.

RADIO-NIGER (Go.)

ADDR.: B. P. 361, Niamey. – **L.P.:** Dir.: P. Noel. Dir. Tec.: Y. Guilledes Buttes.
HOME SCE.:
1511 kc/s 198 m 1 kW: W. 05.30–06.15, 12.30–13.30, 17.30–21.00. Sun.: 11.00–21.00.
5020 – 59.76 – 4 – : W. 05.30–06.15, 17.30–21.00. Sun.: 17.30–21.00.
7105 – 42.22 – 4 – } W.: 12.30–13.30. Sun.: 11.00–17.00.
9710 – 30.90 – 4 – }
N.: French: 06.00, 12.15, 19.30.
ANN.: At opening and close down: "La Marseillaise" and "Ici Niamey Radiodiffusion de la République du Niger". – **INT.-SIG.:** Local Flute. – **V.** by QSL-card. R.p.



★ NIGERIA (Federation of) ★

L.T.: GMT+1 h. – **Pr.L.:** English, Yoruba, Hausa, Ibo. – **Po.:** 34.634.000. – **Rcvrs.:** 70.000. – **E.C.:** 230/440 V, A.C., 50 c/s.

NIGERIAN BROADCASTING CORP. (Statutory Corp.)
ADDR.: Broadcasting House, Ikoyi Road, Lagos. – **Cable:** "Broadcasts, Lagos". – **L.P.:** Dir.-Gen.: R. S. Postgate; Dir. Prgr.: Ch. Armour; Dir. of Adm.: J. C. G. Allen, CMG; Chief Eng.: J. W. Murray.

NATIONAL PROGRAMME (from Lagos):
1458 kc/s 206 m 5 kW: W. 05.00–08.00, 09.30–22.00 (Sat. 23.00)[1]
4990 – 60.12 – 20 – : W. 05.00–08.00, 15.30–22.00 (Sat. 23.00)[2]
9535 – 31.46 – 5 – : W. 09.30–16,45, Sun. 08.00–16.45.
[1] Sun. 06.00–22.00 [2] Sun. 06.00–08.00, 15.30–22.00.

N.: English: 05.30. Mo.–Sat. 12.00 (Fri. 12.30), 14.00, 18.00, 21.00. – **BBC:** 06.00, 07.00, 11.00, 13.00, 18.00. – **BBC Commentary:** 06.09. – **Hausa, Ibo, Yoruba:** 12.15 (Fri. 12.45), 16.45 (Sat. 14.45), 21.15.

NORTH REG. PRGR. (from Kaduna):

Sokoto	1397	kc/s	215 m	0.25	kW	W.: 05.00–08.00, 09.30–22.00 (Sat. 23.00), Sun. 05.00–22.00
Kaduna	1416	–	212	1	–	
Zaria	1397	–	215	0.25	–	
Kaduna	3326	–	90.20	20	–	D. 05.10–07.00, 18.00–22.00 (Sat. 23.00)
	6175	–	48.58	20	–	D. 11.00–17.45
Kano	1376	–	218	1	–	D. 05.10–07.00, 11.00–22.00 (Sat. 23.00)

WEST REG. PRGR. (from Ibadan):

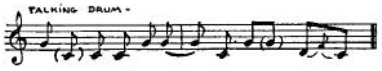
Ibadan	1358	kc/s	221 m	10	kW	C5.C0–C8.C0, C9.30–22.C0 (Sat. 23.C0), Sun. C6.C0–22.00
Ibadan	3204	–	93.64	5	–	
Ibadan	7285	–	41.18	5	–	
Warri	1397	–	215	0.25	–	

EAST REG. PRGR. (from Enugu):

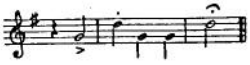
	kc/s	m	kW	
Enugu	1320	228	10	: 05.00–08.00(W), 11.00–22.00(D) exp.
Calabar	1397	215	0.25	W. 05.00–08.00, 09.30–22.00
Onitsha	1397	215	0.25	(Sat. 23.00), Sun. 06.00–22.00
Enugu	3965	75.67	2.5	: 05.30–08.00(W), 16.15–22.00(D)
Enugu	6145	48.82	2.5	: 12.30(Sun. 08.00)–16.00

ANN.: Lagos: "This is the National Programme of the NEC" – **Kaduna:** "This is the North Regional Programme of the NEC" – **Enugu:** "This is the East Regional Programme of the NEC" – **Ibadan:** "This is the West Regional Programme of the NEC".

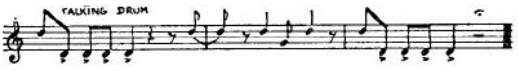
INT.-SIG.: National Programme: Talking Drum.



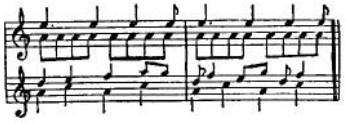
North Regional Programme: Trumpet-Type Instrument.



West Regional Programme: Talking Drum.



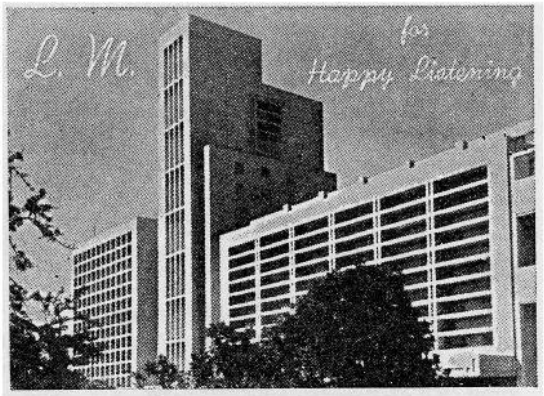
East Regional Programme: Snakers Drum-Xylophone Bass.



V. by letter. – **PUB.:** Monthly: Nigerian Radio Times.

★ REUNION (French) ★

L.T.: GMT+4 h. – **Pr. L.:** French. – **Po.:** 311.000. – **Revrs.:** 12.000. – **E.C.:** 220/310 V, A.C., 50 c/s.
RADIO REUNION (Go.)
ADDR.: B. P. 309, St. Denis. – **L.P.:** Chef des Services: J. Billaud.
HOME SERVICE: 620 kc/s 484 m 1 kW – 3380 kc/s 88.76 m 1.5 kW.
W.: 02.30–03.45, 08.00–10.00, 14.00–18.30. **Sun.:** 04.00–18.30.
N.: W.: C2.3C, C3.3C, C8.3C, 14.C7, 16.3C. Sun.: C4.15, C8.30, 16.45.



These are your

Lourenco Marques Radio

Wavebands for happy listening

[1])	03.30—05.30	
	15.30—21.00	917 kc/s (327 m)
[2])	03.30—04.30	
	17.00—21.00	3221 kc/s (93.13 m)
[3])	20.00—21.00	3301 kc/s (90.88 m)
[4])	03.30—05.00	
	15.00—21.00	4840 kc/s (61.98 m)
[5])	20.00—21.00	4859 kc/s (61.74 m)
[6])	03.30—17.00	7254 kc/s (41.35 m)
[7])	05.00—15.00	9620 kc/s (31.18 m)
[8])	03.30—19.00	11760 kc/s (25.51 m)
[9])	09.00—13.00	15097 kc/s (19.87 m)

Transmitters 6, 7 and 8 open at 04.55 hours on Sundays.
Transmitters 1, 2, 3, 4 and 5 close down at 22.00 hours on Saturdays.

All times indicated are GMT.
NOTE: Subject to seasonal changes.

LOURENÇO MARQUES *For Happy Listening*

For full information see page 106.

Comm.: Sat. 08.45. – Request Prgr.: Thurs. 14.15–15.15. Sun. 14.00–15.00. – Wrp.: W. 03.30, 14.15, 16.30. Sun. 04.15, 14.00, 16.45.
ANN.: "Ici la Réunion, Radiodiffusion Française". – INT.-SIG.: "Madina" (Reunion folklore). – V. by letter. R.p.

★ RHODESIA and NYASALAND ★

L.T.: GMT+2 h. – Pr. L.: English, African, Vernaculars. – Po.: 7.560.000. – Rcvrs.: 100.000. – E.C.: 220/380, A.C., 50 c/s.
THE FEDERAL BROADCASTING CORPORATION OF RHODESIA & NYASALAND (Indep. Statutory Corpo.)
ADDR.: Travlos House, Stanley Avenue, Salisbury, So. Rhodesia. – L.P.: Chairman of Board: The Hon. Sir. R. Hudson. Dir. Gen.: J. Mc. Clurg. Contr. Adm.: C. K. Grierson-Rickford. Contr. English Sce.: J. H. Parry, O. B. E. Contr. African Sce.: C. Sapseid. Dir. Tec.: J. M. Reeves, M.I.R.E.
HOME SERVICE:
Medium Waves

	kc/s	m	kW		kc/s	m	kW
Salisbury	584	514	2	Kitwe	548	547	20
Bulawayo	611	491	2	Lusaka	962	312	2
Que Que	746	402	0.075	Umtali	980	306	2
Gatooma	791	379	2	Gwelo	1043	288	2

Short Waves

Salisbury	3396	88.36	15	Lusaka	7220	41.55	10
Lusaka	4911	51.08	10	Salisbury	9505	31.56	0.3
Salisbury	6018	49.84	15	Lusaka	11822	25.38	10

English Sce.: W. 10.00–12.00, 15.00 (Sat. 14.00)–20.00. Sun. 06.00–12.00, 15.00–20.00. – Comm. Sce.: W. 04.00–10.00, 20.00–21.00 (Sat. 22.00).
3396 kc/s: 15.00–21.00 — 7220 kc/s: 05.00–07.00
4911 – : 04.00–05.00 — 9505 – : 05.45–12.00
6018 – : 04.00–12.00 — 11822 – : 07.00–12.00
N.: 05.00, 06.00, 11.00, 11.15, 18.00, 18.10, 20.50. – Wrp.: 04.02, 05.00, 17.55.
African Sce.: W.: 04.00–06.00, 10.00–19.00. Sun.: 11.00–19.00.

kc/s	m	kW	
1376	218	2	04.00–06.00, 10.00–19.00 (Sun. 11.00–19.00)
3954	75.86	2.5	15.45–19.00
4826	62.16	15	04.00–06.00, 14.00–19.00
7285	41.18	2.5	04.00–06.00, 14.30–19.00
9580	31.32	2.5	10.00–15.30
11882	25.25	2.5	10.00–14.15

A.-PRGR.: English & Vernaculars (Chibemba, Chishona, Chinyanja, Silozi, Sindebele, Chitonga, Chilunda, Luvale).
English: W.: 04.00–06.00, 18.00–19.00. – N.: 18.00.
N. in Vernaculars: 10.45, 15.00. – Wrp.: 17.55.
B.-PRGR.: Vernaculars only: 14.00–18.00 on 4826 kc/s.
ANN.: English Sce.: "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland". – African Sce.: "This is the Federal Broadcasting Corporation of Rhodesia and Nyasaland's African Sce." "This is Lusaka". "Kuno ndi Lusaka".
INT.-SIG.: African Sce.: Kalimba Xylophone 17.58 D. – V.: Listeners reports within the Federation required. – F.PL.: s.w. st. in midlands of So. Rhodesia, which evt. will incorporate English, Commercial and African Services.

★ SAO TOMÉ E PRINCIPE (Port W.Africa) ★

L.T.: GMT. – Pr. L.: Portuguese. – Po.: 60.000. – Rcvrs.: 8.000.
R. CLUBE DE SAO TOMÉ (Comm.), S. Tomé.
HOME SCE.: 4807 kc/s 62.41 m 1 kW.: 19.00–21.00.

★ SEYCHELLES (British) ★

L.T.: GMT+4 h. – Pr. L.: English, French, Creole. – Po.: 41.000. – Rcvrs.: 400. – E.C.: 220 V., D. C.
SEYCHELLES BROADCASTING SERVICE (Go.)
ADDR.: Education Department, Mahé.
L.P.: Dir. of Education: G. I. Michael.
HOME SERVICE: ZCQ3 4990 kc/s 60.12 m 0.04 kW: D. 15.15–16.15. – V. by letter.

★ SENEGAL (French West Africa) ★

L.T.: GMT. – Pr. L.: French, Peulh, Ouolof, Sérére, Diola, Toucouleur, Sarakholé, Manding. – Po.: 20.000.000. – Rcvrs.: 120.000. – E.C.: 127/220 V, A.C., 50 c/s.
RADIO MALI (Go.)
ADDR.: Boite Postale 9, Dakar. – L.P.: Laval.
HOME SCE.: W. 07.00–08.00, 12.00–14.00 (Thurs. 14.30), 19.00–23.30. Sun. 08.00–22.30.

1538 kc/s	196.1 m	10 kW:		07.00–23.30
4950 –	60.60 –	4 –	:	07.00–08.00, 18.00–23.30
7210 –	41.61 –	4 –	:	08.30–18.00
7210 –	41.61 –	25 –	:	07.00–08.00, 18.00–23.30.
11895 –	25.22 –	25 –	:	12.00–18.00

N. in French: W. 07.15, 07.55, 12.00, 13.00, 13.45, 18.30, 20.00, 22.15, 23.25. Sun.: 08.00, 13.00, 20.00, 22.25. English: W. 22.30–22.45.
ANN.: F.: "Ici Radio Mali, station de radiodiffusion de la Fédération du Mali émettant de Dakar...". – INT.-SIG.: Hymn national du Mali. – V. by QSL-card.

RADIO MAURITANIE (Go.)
ADDR.: Main Station: B. P. 376, Saint Louis, Sénégal. Regional Station: Nouakchott, Mauritanie. – L.P.: Dir.: J. Chaminade. Dir. Prgr.: J. Guillard. Dir. Tec.: (St. Louis): J. Bitran. Dir. Tec. (Nouakchott): N. Eterradossi. Dir. News: P. Aymard.
HOME SERVICE in French, Maure, Arabic, Sarakoli, Toucouleur:

1349 kc/s	223.0 m	1 kW:		12.15–13.30, 19.45–22.45
4855 –	61.79 –	4 –	:	19.45–22.45
9610 –	31.22 –	4 –	:	12.15–13.30

ANN.: F.: "Ici Radio-Mauritanie" – INT.-SIG.: Mauretanian guitar. V. by QSL-card. R.p.

RADIO SENEGAL (Go.)
ADDR.: B. P. 376, Dakar.
HOME SERVICE: W. 06.00–08.00, 12.30–14.00, 17.30–23.00. (Sat. 12.30–24.00). Sun.: 08.00–23.00.

1304 kc/s	230.0 m	8 kW:		06.00–24.00
4893 –	61.32 –	4 –	:	06.00–08.00, 17.30–24.00
7171 –	41.84 –	4 –	:	08.00–17.30

N.: French: 06.30 (W), 08.30 (Sun.), 13.20, 20.15. Vernaculars: W. 07.00–07.15. D. 17.30–19.00.
ANN.: F.: "Ici Radio Sénégal, station territoriale de la Radiodiffusion émettant de Dakar dans la bande des...". – INT.-SIG.: Tam-Tam.

★ SIERRA LEONE (British West Africa) ★

L.T.: GMT. – Pr.L.: English, Mende, Temne, Creole. – Po.: 2.000.000. Rcvrs.: 5000. E.C.: 230 V., A.C., 50 c/s.
SIERRA LEONE BROADCASTING SERVICE (Go.)
ADDR.: New England, Freetown. – L.P.: Dir.: L. A. Perowne. Head of Prgr.: J. J. Akar. Dir. Tec.: I. C. Griggs.
HOME SCE.: 06.40–08.00, 16.45–22.00 – 3316 kc/s 90.46 m 5 kW.
N.: English: BBC: 07.00, 18.00, 20.00. – Local N.: 06.45, 20.10 – N. in Vernaculars: 06.50, 19.30 – African Music: Mo. 21.30, Wed. 07.30, Thurs. 17.30, Fri. 21.30.
ANN.: "This is the Sierra Leone Broadcasting Service" – INT-SIG.: "The rain is coming" played by Military Band. – V. by letter. – F.PL.: 10 kW sw.-tr., 0.5 kW sw.-tr. 1960. – PUB.: Weekly bulletin published by Information Dept.

★ SOMALILAND (British) ★

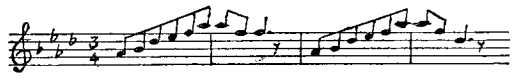
L.T.: GMT+3 h. – Pr.L.: Somali, English, Arabic. – Po.: 650.000. – Rcvrs.: 2.000. – E.C.: D.C., 110 V., 50 c/s.
RADIO SOMALI (Go.)
ADDR.: P.O. Box 14, Hargeisa. – Cable: Informat. – L.P.: Inf. Officer: J. M. Webber. Asst.: A. A. Farah. Prgr.: M. Hashi, A. Dualeh.
HOME SCE.: 13.30–17.30.
4797 kc/s 62.54 m 5 kW – 9667 kc/s 31.04 m 1 kW
Somali: 13.30–15.30, 16.30–17.30. N.: 14.15, 17.00. Mbg.: Sun. 15.45. – English: 15.30–16.30. N.: 16.00.
ANN.: "Halkan Waa Hargeisa. Radio Somali" (This is Hargeisa, Radio Somali). – INT.-SIG.: March. – V.: Reports sought only Somali-speaking audience, but all reports acknowledged by photographic QSL.

★ SOMALILAND (French) ★

L.T.: GMT+3 h. – Pr.L.: French, Somali, Afar, Arabic. – Po.: 67.300. – Rcvrs.: 6.000. – E.C.: 220 V., D.C.
RADIO-DJIBOUTI (Radiodiffusion Télévision Francaise)
ADDR.: B.P. 97, Djibouti. – L.P.: Dir.: P. Farinés.
HOME SCE.: 03.30–05.00, 08.30–10.00, 15.00–20.00.

1538 kc/s	195.0 m	1 kW:		as above.
4780 –	62.76 –	4 –	:	03.30–05.00, 15.00–20.00
6000 –	50.00 –	4 –	:	08.30–10.00

Vernaculars: 03.30–04.00, 09.40–10.00, 15.00–17.00.
N.: Somali: 03.35, 09.40, 15.00. Afar: 03.40, 09.47, 15.40. Arabic: 03.55, 09.54, 16.20. – Prgr.'s in Arabic: 04.30–05.00, 19.00–20.00.
French: 04.00–04.30, 08.30–09.40, 17.00–19.00. N.: 04.15, 09.15, 17.15.
ANN.: "Ici Djibouti, Radiodiffusion Télévision Française". – INT.-SIG.: Extrait d'une mélodie Somalie. – V. by letter. R.p.



★ SOMALILAND (Italian) ★

L.T.: GMT+3 h. Pr. L.: Somali, Italian. – Po.: 1.500.000. – Rcvrs.: 22.000.

RADIO MOGADISCIO (Go.)

ADDR.: Comando Base della Marina in Somalia, Direzione Sviluppo Economico Telecomunicazioni, Mogadiscio.

HOME SCE.: 7072 kc/s 42.42 m 5 kW. – Somali: 09.30–10.00, 13.00–15.00, 16.00–17.00. Italian: 10.00–10.45, 17.00–18.00. N.: 17.15.

ANN.: I.: "Trasmette Mogadiscio".

★ SUDAN ★

L.T.: GMT+2 h. – Pr. L.: Arabic, English. – Po.: 10.263.000. – Rcvrs.: 10.000. – E.C.: 115/200 V, A.C., 50 c/s.

SUDAN BROADCASTING SERVICE (Go.)

ADDR.: P. O. Box 522, Khartoum. Cable: "Irshad".

HOME SCE.: 572 kc/s 524.0 m 50 kW – 9600 kc/s 31.25 m 7.5 kW – 5039 kc/s 59.73 m 20 kW – 11855 kc/s 25.31 m 20 kW

Arabic: D.: 04.15–06.30, 12.15–13.15, 14.30–21.30. Additional: Fri.: 07.30–09.30. Sun. 08.00–09.00. N.: 04.30, 16.40, 19.10. English: D. 16.00–16.30. N.: 16.00.

ANN.: Arabic: "Huna Omdurman". E.: "This is the Sudan Broadcasting Service". – V. by letter.

★ SUDAN (French) ★

L.T.: GMT. – Pr.L.: French, Vernaculars. – Po.: 4.000.000. – Rcvrs.: 8.000. – E.C.: 115/200 V, A.C., 50 c/s.

RADIO SOUDAN (Go.)

ADDR.: B.P. 171, Bamako. – L.P.: Dir. Gen.: M. Talla. Dir. Prgr.: M. Moitessier. Dir. Tec.: Th. Isimat-Mirin.

HOME SCE. in French, Bambara, Sonraie, Peul & Sarakolé:

W.: 06.30–07.30, 12.15–13.00(Sat. 14.00), 18.30–22.15(Sat. 18.00–23.00). Sun.: 08.45–18.00, 18.30–22.00.

1430 kc/s 210.0 m 1 kW: as above
4835 – 62.05 – 4 – : morning+evening
9745 – 30.80 – 4 – : daytime

N.: French: 12.30–12.45, 20.15–20.40, 22.00–22.15. Vernaculars: 19.30–19.45.

ANN.: F.: "Ici Bamako, Radio Soudan, émettant sur...". – INT.-SIG.: Tam Tam and Piano. – V. by letter.

★ TANGANYIKA (British UN Trust Territory) ★

L.T.: GMT+3h. – Pr.L.: English, Kiswahili, Gujerati, Hindustani. – Po.: 8.456.000. – Rcvrs.: 50.000. – E.C.: 240 V, A.C., 50 c/s.

TANGANYIKA BROADCASTING CORP. (Indep.-Comm.)

ADDR.: Broadcasting House, Box 1649, Dar-Es-Salaam. – Cable: "Sauti" – L.P.: Dir. Gen.: T. W. Chalmers, C.B.E., B. Sc. Dir. Prgrs.: C. W. W. Ryan. Chief Eng.: R. A. Muir. Swahili Prgr. Organiser: B. Eccles. English Prgr. Organiser: P. Forbes.

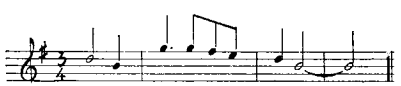
HOME SCE.: Kiswahili:

1250 kc/s 240.0 m 1.3 kW
5050 – 59.41 – 20 –
7277 – 41.25 – 20 –
} 03.15–05.00, 14.00–19.00. N.: 15.45(BBC), 17.00.

Other Languages:

1025 kc/s 292.7 m 1.3 kW
4845 – 61.92 – 10 –
7167 – 41.86 – 10 –
9530 – 31.48 – 5 –
} English: 09.00–11.15, 17.00–19.00 N.: 18.00(BBC). Wrp.: D. 18.15. Schools: 08.00–09.00.

ANN.: Kiswahili: "Hii ni Sauti ya Tanganyika". E.: "This is the Tanganyika Broadcasting Corporation". – INT.-SIG.: Guitar or Bells.



V. by letter. – PUB.: Monthly bulletin in Kiswahili.

★ TCHAD (Rep.) ★

L.T.: GMT+1 h. – Pr.L.: French, Arabic, Sara. – Po.: 2.580.000.

RADIO-TCHAD (Go.)

ADDR.: B.P. 168, Fort Lamy. – L.P.: Dir.: F. Pere.

HOME SCE.: W.: 05.00–06.30[1]), 12.00–14.00, 16.00–21.00. Sun.: 07.00–17.00, 17.00–21.00. [1]) from 1/1 1960.

1538 kc/s 195.0 m 1 kW: as above.
4904.5 – 61.18 – 4 – : 16.00(Sun. 17.00)–21.00.
9585 – 31.30 – 4 – : 05.00–06.30, 12.00–14.00. Sun. 07.00–17.00.

French: W.: 06.00–06.30, 12.00–13.00, 16.00–17.00, 19.00–21.00. Sun: 07.00–13.00, 13.50–17.00, 19.00–21.00. – N.: 06.00(W), 12.30, 19.00, 20.55. – Educational Prgr.: W. 16.00–17.00. – Sport (rel. from Paris): Sun. 13.50–17.00.

Arabic: 05.30–06.00(W), 13.00–13.30, 18.00–19.00. – N.: 18.00–18.30.

Sara: 05.00–05.30(W), 13.30–14.00(Sun. 13.50), 17.00–18.00. – N.: 17.00–17.30.

ANN.: "Ici Radio Tchad, Station du Réseau de la Communauté, émettant de Fort Lamy, République du Tchad" or "Ici Fort Lamy, Radiodiffusion de la République du Tchad".

INT.-SIG.: French (open and close down): Marseillaise. Arabic: Notes played on lute (local). Sara: Notes played on "balafons" (local). – V. by QSL-card.

★ TOGO (French) ★

L.T.: GMT. – Pr. L.: French, Ewe, Cabrais, Cotocolis, Haoussa, Moba, Bassari. – Po.: 1.085.000. – Rcvrs.: 500.

RADIODIFFUSION DU TOGO (Go.)

ADDR.: Radiodiffusion du Togo, B.P. 434, Lomé. – L.P.: Dir.: G. Ekue. Dir. Tec.: E. Comlan.

HOME SERVICE: W. 06.00–08.00, 12.00–13.30, 17.30–22.00 (Sat. 12.00–22.30). Sun. 07.30–14.00, 17.00–22.00.

1394 kc/s 215.0 m 1 kW: 06.00–22.30
5036 – 59.57 – 4 – : 06.00–10.00, 17.00–22.30
7265 – 41.29 – 4 – : 10.00–17.00.

N.: French 06.30 (W), 07.45 (Sun.), 12.30, 19.30, 21.30. Vernaculars: W. 17.30–19.00.

INT.-SIG.:

A competition has been opened for a new national anthem for Togoland which will be used as Radio Togo's signature tune. The result will be published on 27 April 1960 which is the anniversary of the declaration of Togoland's independence.

ANN.: "Ici Lomé Radiodiffusion du Togo". At opening and close down: Hymne Togolais. – V. by QSL-card or letter.

★ TUNISIA ★

L.T.: GMT+1 h. – Pr.L.: Arabic. – Po.: 4.000.000. – Rcvrs.: 200.000. – E.C.: 110/190 V, A.C., 50 c/s.

RADIODIFFUSION TELEVISION TUNISIENNE (Go.)

ADDR.: 139 av. de Paris, Tunis. – L.P.: Dir. Gen.: C. Klibi. Dir. Adm.: M. Fitouri. Dir. Tec.: B. Guyot, M. Chaffai.

HOME SERVICE:

Arabic Network: Mo.–Thurs.: 05.00–08.00, 11.00–14.00, 16.00–22.00. Fri., Sat.: 05.00–08.00, 11.00–22.00. Sun. 05.00–22.00.

Tunis I 629 kc/s 477 m 100 kW – Sfax II 584 kc/s 514 m 1 kW
Tunis III 6000 kc/s 50 m 50 kW

N.: 05.45, 06.30, 07.25, 11.00, 12.00, 13.30, 16.00, 17.00, 18.00, 19.00, 21.45.

French Network: Mo.–Fri.: 05.30–07.00, 11.00–13.00, 17.00–22.00. Sat.: 05.30–07.00, 11.00–22.00. Sun. 06.00–22.00.

Tunis II 962 kc/s 312 m 100 kW – Sfax I 1421 kc/s 211 m 0.05 kW

N.: 05.30, 06.45, 11.00, 12.15, 17.00, 18.30, 21.30.

FOREIGN SERVICE in 16 and 25 m.b. – 50 kW.

Arabic: 17.00–18.00 to M. East – 19.30–20.30 to No. Africa.

English: 18.00–19.00 to Ghana, Nigeria, Liberia.

French: 13.00–14.00 to Mali Guinea.

ANN.: Arabic: "Huna al ida'a att Tunissia" – French: "Ici Tunis Radiodiffusion Télévision Tunisienne". – V. by letter.

★ UGANDA (British) ★

L.T.: GMT+3 h. – Pr. L.: English, Luganda, Lwo, Ateso, Runyankore/Rukiga, Lugbara, Hindustani. – Po.: 5.425.000. – Rcvrs.: 70.000. – E.C.: 240/415 V., A.C., 50 c/s.

UGANDA BROADCASTING SERVICE (Go.)

ADDR.: P. O. Box 142, Kampala. Cable: Knowledge. – L.P.: Dir. Inf.: A. G. Ridley, M.V.O. Head of Prgr.: J. Kenyon. Chief Broadc. Eng.: A. Stephenson, Assoc. I.E.E.

HOME SCE.: S.w. 7.5 kW. M.w. 0.5 kW. W. 12.30 (Sat. 11.00)–19.30. Sun. 07.00–19.30.

5026 kc/s 59.70 m d. – 7110 kc/s 42.19 m d. – 9590 kc/s 31.28 m d.
1548 – 547.5 – – 971 – 309 –

Daily up to 14.00 on 9590 kc/s. Daily from 14.15 on 5026 kc/s.

English: D. 17.30–19.30. Sun. also 07.00–08.00. N.: 18.00 (BBC). – Wrp.: 17.40. – Vernaculars: D. 12.30 (Sat., Sun. 11.00)–14.00; 14.15–17.30 in Luganda, Runyankore/Rukiga, Lwo, Ateso. Sun. also 08.00–10.30 in Runyankore, Lugbara. – Hindustani: Sun. 10.30–11.00.

ANN.: E.: "This is the Uganda Broadcasting Service, Kampala". – Luganda: "Eno ye Uganda Broadcasting Service, Kampala". – Lwo: "Man en aye Uganda Broadcasting Service, Kampala". – Ateso: "Ne nges Uganda Broadcasting Service, Kampala". – Runyoro: "Enu niyo Uganda Broadcasting Service, Kampala". – V. by QSL-card. – F.PL.: 3 channel transmissions providing powerful M.W. tr. for major population areas and S.W. for remoter areas. Approx. 1960.

★ UNION OF SOUTH AFRICA ★

L.T.: GMT+2 h. – Pr. L.: English, Afrikaans. – Po.: 13.915.000. – Rcvrs.: 810.000. – E.C.: 220/380 V., A.C., 50 c/s.

S. AFRICAN BROADCASTING CORPORATION (Go.)
ADDR.: P. O. Box 8606, Johannesburg. Cable: Broadcast.
L.P.: Chairman of the Board of Governors: Dr. P. J. Meyer. Vice-Chairman: Mr. W. J. Lamb. Dir. Gen.: Gideon Roos. Deputy Director-General: N. L. Filmer. Secr.: J. P. A. van der Walt. Chief Engineer: H. O. Collett. Chief Accountant: R. C. Strike. Head English Sce.: H. J. Howell. Head of Afrikaans Sce.: M. M. van Lille. Head of Comm. Sce. (Springbok Radio): B. S. Louw. Head of News: A. M. van Schoor.
AFRICA SERVICE: International St. at "PARADYS" near Bloemfontein, O.F.S.:
15200 kc 19.74 m – 25800 kc 11.63 m: 11.00–18.00.
English: Sce.: Tues., Thurs., Sat. – Afrikaans Sce.: Mo., Wed., Fri., Sun.
HOME SERVICES
National Shortwave Stations at "PARADYS":

ENGLISH SCE.		AFRIKAANS SCE.		COMM. SCE.	
3316 kc/s	90.47 m	3376 kc/s	88.89 m	3356 kc/s	89.42 m
4810 kc/s	62.37 m	4895 kc/s	61.29 m	4945 kc/s	60.67 m
7229 kc/s	41.50 m	7275 kc/s	41.25 m	7295 kc/s	41.12 m
9680 kc/s	30.99 m	9523 kc/s	31.50 m	9720 kc/s	30.86 m
11900 kc/s	25.21 m	11840 kc/s	25.34 m	11937 kc/s	25.14 m
15280 kc/s	19.63 m	15110 kc/s	19.85 m	15200 kc/s	19.73 m

Shortwave schedules for the Home Services are determined by ionospheric conditions. The table below gives the approximate times of use for the various wavebands:

03.00–04.30 90, 60, 41	05.00–07.00 41, 31, 25	11.00–16.00 31, 25
04.30–05.00 60, 41, 31	07.00–11.00 31, 25, 19	16.00–16.30 41, 31
		16.30–22.00 60, 41

National Medium-Wave Stations:

Johannesburg:	ENGLISH SCE.	AFRIKAANS SCE.	COMM. SCE.
West Rand	638 kc 470 m	719 kc 417 m	575 kc 522 m
East Rand	1034 kc 290 m	827 kc 363 m	1286 kc 233 m
Pretoria	1439 kc 208 m	1097 kc 273 m	1268 kc 236 m
Bloemfontein	674 kc 445 m	593 kc 506 m	782 kc 384 m
Kimberley	1070 kc 280 m	1241 kc 242 m	962 kc 312 m
Grahamstown	620 kc 484 m	701 kc 428 m	809 kc 371 m
Port Elizabeth	1313 kc 228 m	1043 kc 288 m	1178 kc 255 m
East London	1025 kc 293 m	1151 kc 261 m	908 kc 330 m
Cape Town	656 kc 457 m	557 kc 539 m	728 kc 412 m
Durban	566 kc 530 m	692 kc 433 m	800 kc 375 m
Pietermaritzburg	764 kc 392 m	665 kc 451 m	845 kc 355 m
Pietersburg	1115 kc 269 m	863 kc 348 m	989 kc 303 m

D.PRGR. English and Afrikaans Services:
W.: 04.30–21.15. Sun.: 05.30–21.15.
N.: 05.00 (W), 06.00, 11.15, 16.00, 17.00 (W), 19.00, 21.00.
D.PRGR.: Commercial Service (Springbok Radio):
W.: 03.00–22.00 Sun.: 05.00–21.00.
V. by QSL-card for all Services. – PUB.: "SABC Radio Bulletin".

★ UPPER VOLTA (French West Africa) ★

L.T.: GMT. – Pr. L.: French, Vernaculars. – E.C.: 230/400 V., A.C. 50 c/s.

RADIO HAUTE-VOLTA (Go.)
ADDR.: Boite Postale 410, Ouagadougou.
L.P.: Dir.: H. da Piedade.
STATIONS: Ouagadougou: m.w.: 1 kW; s.w.: 4 kW. 1439 kc/s 208.4 m – 4815 kc/s 62.31 m – 9515 kc/s 31.53 m. Experimental transmissions.

★ ZANZIBAR (British) ★

L.T.: GMT+3 h. – Pr. L.: Kiswahili, English, Arabic. – Po.: 299.111. – Rcvrs.: 5000. – E.C.: 240 V., A.C., 50 c/s.

VOICE OF ZANZIBAR – SAUTI YA UNGUJA (Voice of Zanzibar) (Go.)
ADDR.: P. O. Box 222, Zanzibar. Cable: Broadcasting. – L.P.: Inf. Officer, Sheik Yalya Alawi. Dir. Tec.: B. C. Norman. Dir. Prgr.: Sheik Y. M. Yussif.
HOME SCE.: Kiswahili; occ. items in English, Arabic, Urdu.
600 kc/s 500 m 0.25 kW
6005 – 49.96 – 3.5 – } W.: 10.25–11.30, 13.30–16.30.
4795 – 62.54 – 0.25 – Special sce. and darkness. tr.
N.: Swahili rel. BBC D. 15.45, 10.30.
ANN.: Swahili: "Hi ni Sauti ya Unguja". Arabic: "Hadha Saut Zinjibar". English: "This is Zanzibar calling on 49.96 and 600 metres". – INT.-SIG.: Musical chords. – V.: Reports not required outside Africa.
R.p. – PUB.: Weekly prgr. sched. internal circulation.

NEAR EAST

★ ADEN (British Colony) ★

L.T.: GMT+3 h. – Pr. L.: Arabic, English. – Po.: 140.000. – Rcvrs.: 32.000. – E.C.: 230 V., A.C., 50 c/s.

ADEN BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 1264, G.P.O., Aden. – Cable: Broadcasts. – L.P.: Dir. Gen.: N. J. Watt, Dir. Prgr.: A. Zokari. Dir. Tec.: D. A. Import.
HOME SCE. in Arabic: 12.00–20.30.
809 kc/s 370.8 m 5 kW – 7170 kc/s 41.84 m 7.5 kW d.
N.: 12.00, 14.00, 15.30, 17.00, 17.45. Relay BBC: 18.00, 19.15, 20.15 – Mbg.: Thurs. 13.10.
ANN.: "Huna Adan" (This is Aden) or "Mahatatu Adan Lil idh a". (This is the Aden Broadcasting Service). – V. by QSL-card or letter. R.p. preferred. – Prgr. sched. free on request.

ADEN FORCES BROADCASTING ASSOCIATION (Mil.)
ADDR.: R.A.F. Station, Khormaksar, Aden. – L.P.: Mgr.: L. Brunt, c/o RAF School. – 1025 kc/s 293 m: 69 broadc. hours per week in English.

★ AFGHANISTAN ★

L.T.: GMT+4½ h. – Pr. L.: Pushto, English. – Po.: 13.000.000. – Rcvrs.: 12.000. – E.C.: 230 V., A.C., 60 c/s.

AFGHAN BROADCASTING SYSTEM (Go.)
ADDR.: Telecommunications Division, Ministry of Communications, Kabul. – Cable: Aftel. – L.P.: Dir. Gen.: M. Benewa. Dir. Tec.: Sultani.
HOME SERVICE
660 kc/s 454.5 m 20 kW: 03.00–05.00, 12.00–17.00
4710 kc/s 63.78 m 10 kW: 12.00–17.00. (relay 660 kc/s)
Until 15.30 all prgr.'s in Pushto, 15.30–17.00 in English, Persian, Urdu.
FOREIGN SERVICE:
11730 kc/s 25.58 m 50 kW: 15.10–15.50.
English to Middle East and Far East.
7285 kc/s 41.18 m 50 kW: 18.30–19.30.
18.30 French, 19.00 English to Europe.
ANN.: Pushto: "Da Kabul dai". – INT.-SIG.: A record on national flute. – V. by QSL-card.

★ BAHRAIN ★

L.T.: GMT+4 h. – Pr. L.: Arabic. – Po.: 143.213. – Rcvrs.: 12.000. – E.C.: 230/400 V., A.C., 50 c/s.

BAHRAIN BROADCASTING STATION (Go.)
ADDR.: Department of Public Relations and Broadcasting, Manama. Bahrain, Persian Gulf. – L.P.: Acting Dir. of Public Relations & Broadc.: H. J. Mandeel, Dir. of Broadc.: L. A. Kanoo. Dir. Tec.: S. A. Khan.
HOME SCE.: 610 kc 491.8 m 2 kW: D. 16.00–19.00. Fri. also 04.30–06.30. – N.: D. 17.30. – Mbg.: Tues. 17.00–17.10. – Wrp.: 17.45.
ANN.: Arabic: "Huna Bahrain, Il-Iza'a Al-Bahrainia Al-Lasilkia". E.: "Here is Bahrain. The Bahrain Broadcasting Station". – INT.-SIG.: Toy Symphony. – V. by letter. – PUB.: Fortnightly: "Bahrain Calling" in Arabic. Write for copy.

★ CYPRUS ★

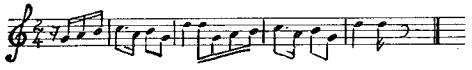
L.T.: GMT+2 h. – Pr. L.: English, Greek, Turkish. – Po.: 550.000. – Rcvrs.: 150.000. – E.C.: 240 V., A.C., 50 c/s.

CYPRUS BROADCASTING CORPORATION (Go. and Comm.)
ADDR.: P. O. Box 824, Nicosia. Cable: "Broadcasts", Nicosia. – L.P.: Dir. Gen.: J. R. C. Proud, CBE, VRD. Dir. Tec.: M. W. Heffernan. Secr.: R. L. Cash.

HOME SCE.:

GREEK PRGR.:
Nicosia 692 kc 434 20 kW – Paphos 915 kc 326 m 2 kW
W.: 04.30–05.30, 10.30–12.00, 15.00–20.00. Sun.: 05.00–12.00, 15.00–20.00. – N.: D. 05.00, 11.45, 17.30, 19.45. – Request Prgr.: D. 16.05–16.45, Fri.: 18.15–19.15.
TURKISH PRGR.:
Nicosia 606 kc 495 m 20 kW – Limassol 900 kc 333 m 0.3 kW
W.: 04.30–05.30, 10.30–12.00, 15.00–16.45, 17.30–20.00. Sun.: 05.00–12.00, 15.00–16.45, 17.30–20.00. – N.: D. 05.00 (Sun. 06.00), 11.45, 17.30, 19.45. – Request Prgr.: Sun.: 07.00–08.00. Thurs.: 15.00–16.00. Other days exc. Mo. 16.05–16.45.
ENGLISH PRGR.: Prgrs. and N. are on all frequencies exc. for 06.30–10.30, 16.45–17.30 when they are on 606 kc/s only. D.: 00.15–01.00, 16.45–17.30, 20.00–21.00. W.: 05.45–10.30. Sun.: 05.45–06.00. Sat. only: 08.00–22.00. – N.: D. 05.30, 12.00, 17.00, 21.00. – Request Prgr.: Mo., Wed. 06.30, Sat. 21.00.
ARMENIAN: 14.00–15.00 1st Sun. of the month on all CBC wavelengths.

ANN.: Greek: "Radiofonikon Idryma Kyprou". – Turkish: "Burasi Kibris Radyo Yayin Korporasyonou". – V. by letter.
INT.-TIG,:



FORCES BROADCASTING SERVICE (Military)
ADDR.: No. 4 Forces Broadcasting Service, B.F.P.O. 53, Nicosia. –
HOME SCE. in English:

Limassol	719 kc/s	417.2 m	W. 04.00–06.15, 10.30–21.00.
Nicosia	1086 –	276.0 –	Sun. 05.00–21.00.
Episkopi	95.8 mc/s		

ANN.: "This is the Forces Broadcasting Station, Cyprus". – INT.-SIG.: Musical Box. – V. by QSL-card/letter.

★ IRAN ★

L.T.: GMT + 3½ h. – Pr.L.: Persian. – Po.: 18.945.000. – Rcvrs.: 250.000. – E.C.: 220/380 V., A.C., 50 c/s.

DEPARTMENT OF PUBLICATION AND BROADC (Go.)
ADDR.: Radio Iran, Meidan Ark, Tehran. – L.P.: Dir. Gen.: N. Moinain.
HOME SCE.: R. Iran: 02.00–20.30.

895 kc/s	335.2 m	50 kW	–	9680 kc/s	30.99 m	100 kW	
3780 –	79.35 –	20 –	–	11730 –	25.58 –	20 –	

N. every hour on the hour exc. Fri. – Urdu: 12.00–12.15.
FOREIGN SCE.: R. Tehran:

1340 kc/s	223.9 m	2 kW	–	15125 kc/s	19.83 m	100 kW	
6040 –	49.67 –	20 –	–	17775 –	16.88 –	20 –	

To Middle East: 17.30–19.30 on 1340, 6040 kc/s:
17.30 Kurdish 18.00 Persian 18.30 Arabic 19.00 Persian.
To Europe: 20.00–21.00 on 1340, 15125 kc/s:
20.00–20.15 Turkish 20.15–20.30 French 20.30–21.00 English
ANN.: English: "This is Tehran Calling". Persian: "Inja Tehran". – INT.-SIG.: Iranian melody on piano. – V. by letter.
REGIONAL STATIONS:

R. Ahwaz: 13.00–18.00				R. Rizaiyeh: 13.30–17.30			
1390 kc/s	215.8 m	1	kW	1000 kc/s	300.0 m	1	kW
7990 –	37.55 –	0.5	–	6850 –	43.80 –	0.5	–
R. Isfahan: 13.30–16.30				R. Sanandaj:			
1500 kc/s	200.0 m	1	kW	1360 kc/s	220.6 m	1	kW
6175 –	48.58 –	0.5	–	6715 –	44.68 –	0.5	–
R. Kerman: 14.30–17.30				R. Shiraz: 13.00–17.30			
1200 kc/s	250.0 m	1	kW	1500 kc/s	200.0 m	1	kW
R. Kermanshah: 13.30–18.30				6385 –	46.99 –	0.5	–
1090 kc/s	275.2 m	1	kW	R. Tabriz: 02.00–05.00,			
R. Meshed: 14.30–16.30				07.30–18.30			
1080 kc/s	277.8 m	1	kW	640 kc/s	468.8 m	5	kW
6870 –	43.67 –	0.5	–	6152 –	48.77 –	7.5	–
R. Resht: 13.30–16.30							
1250 kc/s	240.0 m	1	kW				
7940 –	37.78 –	0.5	–				

★ IRAQ ★

L.T.: GMT+ h. – Pr. L.: Arabic, Kurdish. – Po.: 5.000.000. – Rcvrs.: 100.000. – E.C.: 200 V, A.C., 50 c/s.
BROADCASTING STATION OF THE REPUBLIC OF IRAQ
(Go.)
ADDR.: Salhiyah, Baghdad. – L.P.: Dir. Gen.: S. Al-Fahkri.
HOME SCE.:
908 kc/s 330 m 200 kW YIH166 – 3297 kc/s 91.00 m 16 kW YIH32 – 7180 kc/s 41.78 m 100 kW.
Arabic: 03.30–06.00, 10.00–21.00 on 908, 3297. 7180 kc/s. N.: 04.00, 11.00, 14.00, 15.00, 17.00, 19.00, 21.00. – Wrp.: 17.15.
Kurdish: 13.00–17.00 on 3297 kc/s.
FOREIGN SCE. on 6030 kc/s 49.75 m 100 kW.
French: 19.00–19.30. – German: 19.30–20.00. – English: 20.00–20.30.
ANN.: "Huna Baghdad" (Here is Baghdad). – INT.-SIG.: Soft chirps of a mechanical nightingale. – V. by QSL-card. – PUB.: Prgr. sched., Monthly.

★ ISRAEL ★

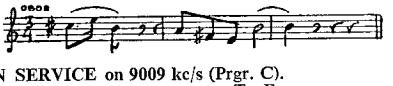
L.T.: GMT+2 h. – Pr.L.: Hebrew, Arabic. – Po.: 2.630.000. – Rcvrs.: 400.000. – E.C.: 220/380 V., A.C., 50 c/s.
ISRAEL BROADCASTING SERVICE (Go.)
ADDR.: Kol Israel: Israel Broadc. Sce., Broadcasting House, Jerusalem. – Cable: "Kol Israel". – L.P.: Dir.: Zvi Zinder. Deputy Dir.: H. Givton. Dir. of Prgr.: Dr. Y. Spiro. Dir. Transcripton Sce.: K. Salomon. Dir. Tec.: M. Berman – Ministry of Posts.
STATIONS: Medium Waves:

kc/s	m	kW	Call	Prgr.	kc/s	m	kW	Call	Prgr.
575	521.7	50/10	4XB36	A	1169	256.4	1	4XB23	A
652.1	460	0.8	4XB47	B	1205	249	10	4XB35	A
710	422.5	1	4XB20	B	1277	234.9	1	4XB53	E
737	407.1	100/10	4XB34	D	1336.5	224.5	1	4XB42	E
1025	292.2	0.5	4XB48	B	1390	215.8	1	4XB43	E
Short Waves:									
2442	122.9	0.5	4XB51	E	7189	41.73	7.5/2.5	4XB49	D
					9009	33.30	50/7.5	4XB31	C

FM: (For radio links only between studios and transmitters).

mc/s	kW	Call	mc/s	kW	Call	mc/s	kW	Call	mc/s	kW	Call
71.5	0.04	4XB45	89.3	0.25	4XB32	93.3	0.25	4XB39	99.3	0.25	4XB55
88.3	0.25	4XB37	90.3	0.25	4XB33	94.3	0.25	4XB52	99.7	0.04	4XB46
88.8	0.25	4XB54	91.3	0.25	4XB38						

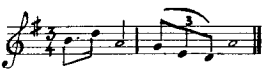
HOME SERVICES:
Main Prgr. in Hebrew (Prgr. A) on 575/1169/1205 kc/s: 04.30–06.00, 09.00–13.00, 14.00–21.00. – N.: 05.00, 11.30, 15.00, 17.00, 19.00, 21.00.
Prgr. B (for new immigrants) in Hebrew, Yiddish, Ladino, French, English, Hungarian, Rumanian, Polish, Moroccan, Arabic on 652.1/710/1025/7189 kc/s: 16.00–20.15.
English: 12.00–12.15, 20.00–20.15. – French: 12.15–12.30, 17.00–17.30.
Special Prgr. in English, Spanish, Swedish for UN Emergency Forces: 14.30–15.00.
Forces Prgr. E in Hebrew on 1277/1336.5/1390/2442 kc/s: 16.00–20.30.
Arabic Prgr. D on 737/7189 kc/s: 04.30–05.15, 11.15–12.15, 15.30–21.15.
INT.-SIG.: Traditional Bible constellation played on obo strings



FOREIGN SERVICE on 9009 kc/s (Prgr. C).

To So. Africa:		To Europe:	
15.15–15.45	Yiddish	18.15–18.30	Hebrew
16.15–16.45	English	18.30–19.00	Yiddish
To Europe:		19.00–19.30	Ladino
17.00–17.15	Rumanian	19.30–20.00	French
17.15–17.30	Hungarian	20.00–20.15	Hebrew
17.30–18.00	Persian	*20.15–20.30	Yiddish
18.00–18.15	Moroccan	20.30–21.00	English.

* Sun. & Tues. only.
ANN.: Home Sce.: "Kol Israel Meyerushalayim" – Foreign Sce.: E.: "This is Kol Israel, the Voice of Israel, broadcasting from Jerusalem".
INT.-SIG.:



V. by QSL-card. – F.PL.: 2 tr. 100 kW, one m.w. and one s.w. 1959–60, and it is proposed to add a fifth "Light Prgr." to the existing 4 sce's (Home – New Immigrants – Arabic – Foreign). – PUB.: Weekly prgr.sched.

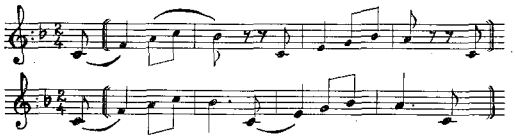
★ JORDAN ★

L.T.: GMT+2 h. – Pr.L.: Arabic, English. – Po.: 1.600.000. – Rcvrs.: 53.281. – E.C.: 220 V., A.C., 50 c/s.
THE HASHEMITE JORDAN BROADCASTING SERVICE
(Go.)
ADDR.: Amman, Jordan. – L.P.: Dir. Gen.: H. E. Wasfi El-Tell. Ass. Dir. Adm.: A. Zawati. Ass. Dir. Eng.: A. Bayat. Ass. Dir. Prgr.: S. Abu Zeid. Chief News Sce.: M. Sherif.
STATIONS: Amman 800 kc/s 375 m 100 kW – Amman 6020 kc/s 49.83 m 7.5 kW – Jerusalem 677 kc/s 443 m 20 kW.
HOME SERVICE:
Amman: Arabic: 04.00–08.00, 11.00–13.00, 15.00–22.00.
Jerusalem: English: 11.00–12.00, 15.00–17.00. – Arabic: 12.00–15.00.
ANN.: E.: "This is Amman, The Broadcasting Service of the Hashemite Kingdom of Jordan". – V. by letter. – F.PL.: 100 kW tr. on 9530 kc/s. – PUB.: Prgr. sched. free on request.

★ KUWAIT ★

L.T.: GMT+3 h. – Pr.L.: Arabic. – Po.: 250.000. – Rcvrs.: 50.000. – E.C.: 220/240 V., A.C., 50 c/s.
KUWAIT BROADCASTING SERVICE
ADDR.: Kuwait. – L.P.: Pres.: His Highness Shaih Abdallah Mubarak As-Sabah. Dir. Gen.: M. T. Ghossain. Dir. Prgr.: M. Abo-Gharbish.
HOME SERVICE: 16.00–19.30 in Arabic.
1130 kc/s 265 m 1 kW – 1344 kc/s 224 m 5 kW – 4967 kc/s 60.25 m 5 kW. – N. Wrp.: 17.00–17.15.

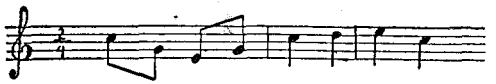
ANN.: "Huna Dar Al-Iza'a Al-Kuwaitieh".
INT.-SIG.:



V. by QSL-card. – F.PL.: 1960; increase of prgr's up to 10 h. daily. 1961–62: 1 tr. for m.w., 1 tr. for s.w. 5 kW; morning and midday transmissions with coverage: The Arab World.

★ LEBANON ★

L.T.: GMT+2 h. – Pr. L.: Arabic, French, English. – Po.: 1.600.000. – Rcvrs.: 80.000. – E.C.: 110/190 V, A.C., 50 c/s.
LEBANESE BROADCASTING STATION (Go.)
ADDR.: Radio Liban, Ministére de l'Information, Beyrouth.
Cable: "Radioliban".
HOME SERVICE:
836 kc/s 359 m 4 kW – 989 kc/s 303.3 m 10 kW – 8036 kc/s 37.34 m 2kW
French: D.: 05.30–07.00, 11.30–12.30, 19.00–20.15 on 836/8036 kc/s. – N.: 05.30, 11.30, 19.00. – English: D.: 15.00–16.00 on 836/8036 kc/s. – N.: 15.00. – "English by Radio" (English/Arabic): Mo., Wed. 15.45.
ANN.: Arabic: "Houna Beyrouth, Dar al'Iza'a al Loubnaniat". F.: "Ici Beyrouth, Station de Radiodiffusion Libanaise". E.: "This is the English programme of the Lebanese Broadcasting Station in Beirut". – INT.-SIG.: For medium and short wave:



V. by QSL-card. – F.PL.: A m.w. & s.w. st. 100 kW each end 1959. – PUB.: Prgr. schedule in Arabic free on request.

★ SAUDI ARABIA ★

L.T.: GMT+3 h. – Pr. L.: Arabic, English. – Po.: 6.000.000. – Rcvrs.: 21.000. – E.C.: 110/220 V., A.C., 60 c/s.
SAUDI ARABIAN BROADCASTING (Go.)
ADDR.: General Directorate of Press and Broadcasting, Jeddah. – L.P.: Dir. Gen.: H. E. Sheikh Abdulla Bilkhiar. Dir. Prgr.: S. Basbous. Dir. Tec.: A. Andreou.
STATIONS: Jeddah.
723 kc/s 414 m 50 kW – 3990 kc/s 75.19 m 3 kWd
11950 – 25.10 – 10 –
HOME SERVICE in Arabic: Approx. 04.00 05.30, 11.00–12.30, 17.00–20.30. H. of tr. depends on sunset and is adjusted every day.
FOREIGN SCE.: Indonesian 13.00–14.00 (N. 13.45). – Urdu 14.00–15.00 (N. 14.45).
ANN.: Home Service: "Dar el Izaa el Arabia el Scoudia". Foreign Service: "Disini Mecca" (Indonesian). "Markaz nashr iza's Macca muazamah" (Urdu).
INT.-SIG.: Call to prayer (az'an) played on flute. – V. by letter. – F.PL.: Jeddah: 2 s.w. tr's 50 kW, 1 s.w. tr. 100 kW 1961. Riyadh: 50 kW m.w., 2 x 50 kW and 100 kW s.w.

★ SYRIA (United Arab. Rep.) ★

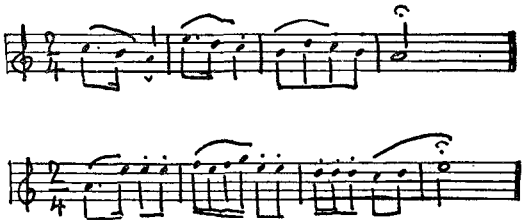
L.T.: GMT+2 h. – Pr. L.: French, Arabic. – Po.: 4.000.000. – Rcvrs.: 500.000. – E.C.: 110 V, A.C., 50/60 c/s.
DAMASCUS U.A.R. BROADC. SERVICE (Go.)
ADDR.: Rue de la Victoire, Damascus.
STATIONS:

602 kc/s	498.20 m	2	kW	9555 kc/s	31.40 m	7.5/20	kW
665 –	451.20 –	50	–	9810 –	30.58 –	7.5/20	–
719 –	417.20 –	2	–	11752 –	25.53 –	7.5/20	–
746 –	402.00 –	20	–	12000 –	25.00 –	7.5/20	–
5975 –	50.21 –	7.5/20	–	15165 –	19.78 –	7.5/20	–
6200 –	48.39 –	7.5/20	–	17865 –	25.00 –	7.5/20	–
7145 –	41.99 –	7.5/20	–	21560 –	13.91 –	7.5/20	–

HOME SCE.: 04.00–22.00 in Arabic, French, English.
FOREIGN SERVICE:
To Eu. on 15165 kc/s: 19.30–20.30 in French & English.
To N.Af. in Arabic on 17850, 21560 kc/s: 13.00–14.00.
To Israel in Hebrew on 665, 746, 9555 kc/s: 14.00–15.00.
To So., C.Am. in Arabic, Spanish, Portuguese: on 15165, 17865 kc/s: 00.00–00.05 (Arabic, Sp.), 00.05–01.00 (Arabic), 01.00–02.00 (Sp.).
ANN.: Arabic: "Houna Dimashk". E.: "This is Damascus Calling". F.: "Ici Damas". Sp.: "Aqui Damasco". Hebrew: "Kol Damasseh".
V. by QSL-card and letter.

★ TURKEY ★

L.T.: GMT+2 h. – Pr. L.: Turkish. – Po.: 25.500.000. – Rcvrs.: 1.125.000. – E.C.: 220 V., A.C., 50 c/s.
RADIO ANKARA (Go.)
ADDR.: Office: Turkish Press, Broadcasting and Tourist Dept. Ankara. – Studios: Radyoevi, Ankara – Radyoevi, Istanbul. – Cable: Basin-Yayin, Ankara.
HOME SERVICE:
R. Ankara TAR 182 kc/s 1648 m 120 kW: 04.20–14.00, 14.58–22.05
R. Istanbul TAW 701 – 428 – 150 – : 05.20–07.00, 10.27–13.00, 14.57–22.05
R. Izmir TAZ 6600 – 45.45 – 0.4 – :13.58–21.15
FM: Istanbul 92 mc/s – 96 mc/s – 0.25 kW.
N., Wrp.: On 182 kc/s: 05.45, 11.00, 17.00, 18.00, 18.15, 20.45. On 701 kc/s: 06.00, 11.30, 17.30, 18.00, 18.15, 21.15. On 6600 kc/s: 14.30, 18.00, 18.15, 19.45.
ANN.: "Burasi Ankara" (This is Ankara), or "Burasi Istanbul Radyosu" (This is Radio Istanbul).
INT.-SIG.: Ankara:



FOREIGN SERVICE:

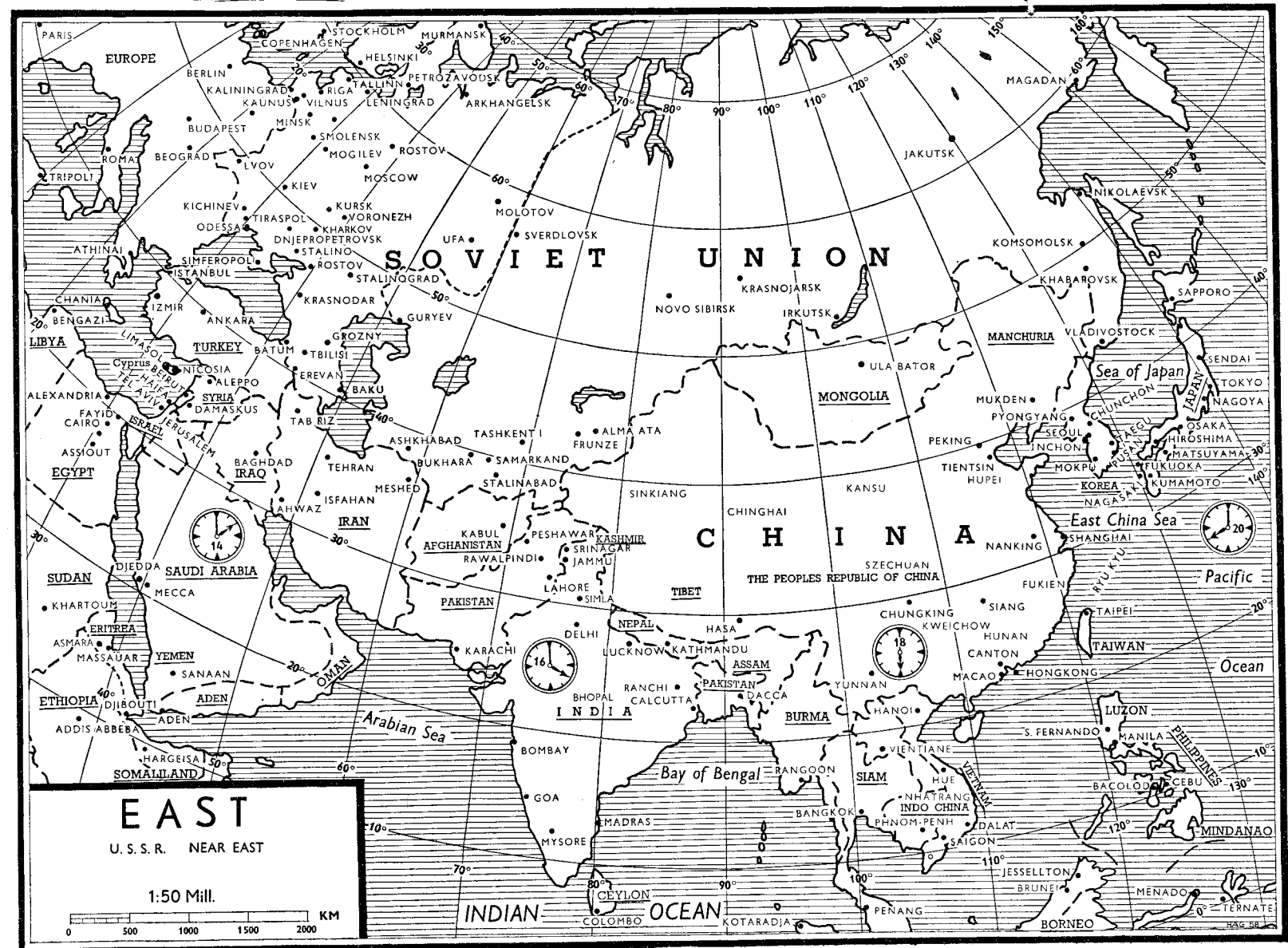
Ankara I 20 kW			Ankara II 100 kW					
	kc/s	m		kc/s	m		kc/s	m
TAN	6000	50.00	*TAL4	7140	42.02	TAU	15160	19.79
TAM	7240	41.44	TAS	7285	41.18	*TAL3	15220	19.71
TAP	9465	31.70	TAT	9515	31.53	TAV	17820	16.84
TAK	11760	25.51	*TAO	11880	25.25	*TAX	21660	13.85
TAQ	15195	19.74						
TAD	17720	16.93	* inactive.					

DAILY PRGR.:
I=Middle East; II=Europe; III=So. East Asia; IV=No. America; V=So. Am.; VI=Korea; VII=So. Asia.

Time	Sce.	m.b.	Time	Sce.	m.b.
Arabic			**Persian**		
06.00–06.30	I	31	16.00–16.30	I	31
13.00–13.30	I	31	**Polish**		
16.30–17.00	I	31	19.15–19.30	II	41–31
18.15–18.30	I	31	**Pushtu**		
Bulgarian			15.00–15.30	I	16
18.00–18.15	II	41–31	**Rumanian**		
English			17.45–18.00	II	41–31
13.30–14.15	III	16	**Serbo-Croat**		
21.00–21.45	II	41–31	18.30–19.00	II	41–31
23.15–24.00	IV	31	**Spanish**		
French			22.30–23.00	II/V	31
20.15–20.45	II	41	**Turkish**		
German			11.00–11.30	VI	31
19.30–20.15	II	41	11.00–12.00	II	19
Greek			17.00–17.15	II	41–31
17.15–17.45	II	41–31	18.15–18.30	II	41
Hungarian			20.00–20.45	II	31
19.00–19.15	II	41–31	20.45–21.00	II	41–31
Italian			**Urdu**		
19.30–20.00	II	31	15.30–16.00	VII	16

ANN.: "Burasi Türkiye Radyoyayin Postalari Kisa dalga Ankara Radyosu" (This is the Turkish Broadc. Sces. S.W. Ankara R.).
INT.-SIG.: An old Turkish dance-tune "Sari Zeybek"

V. by QSL-card. – PUB.: Weekly prgr. sched. for R. Ankara, R. Istanbul, R. Izmir. Free distribution to certain persons, institutions and firms.


EAST
U. S. S. R. NEAR EAST
1:50 Mill.
0 500 1000 1500 2000 KM
SOVIET UNION
CHINA
THE PEOPLES REPUBLIC OF CHINA
INDIAN OCEAN
Arabian Sea
Bay of Bengal
Sea of Japan
East China Sea
Pacific Ocean
EUROPE
PARIS
BERLIN
COPENHAGEN
STOCKHOLM
MURMANSK
HELSINKI
PETROZAVODSK
TALLINN
RIGA
KALININGRAD
KAUNUS
VILNUS
LENINGRAD
ARKHANGELSK
BUDAPEST
MINSK
SMOLENSK
MOGILEV
ROSTOV
BEOGRAD
ROMA
TRIPOLI
LVOV
MOSCOW
KIEV
KICHINEV
TIRASPOL
KURSK
VORONEZH
ODESSA
KHARKOV
DNJEPROPETROVSK
STALINO
ATHINAI
SIMFEROPOL
ISTANBUL
ROSTOV
STALINOGRAD
KRASNODAR
CHANIA
IZMIR
BENGAZI
ANKARA
GURYEV
LIBYA
TURKEY
BATUM
GROZNY
TBILISI
Cyprus
LIMASOL
BEIRUT
NICOSIA
ALEPPO
TEL AVIV
HAIFA
ALEXANDRIA
SYRIA
DAMASKUS
EREVAN
BAKU
FAYID
CAIRO
ISRAEL
JERUSALEM
TABRIZ
ASSIOUT
EGYPT
BAGHDAD
IRAQ
TEHRAN
ASHKHABAD
BUKHARA
TASHKENT I
SAMARKAND
ALMA ATA
FRUNZE
MESHED
STALINABAD
ISFAHAN
AHWAZ
IRAN
SUDAN
DJEDDA
SAUDI ARABIA
MECCA
KHARTOUM
ERITREA
ASMARA
MASSAUAR
YEMEN
SANAAN
OMAN
ETHIOPIA
DJIBOUTI
ADEN
ADDIS ABBEBA
HARGEISA
SOMALILAND
KABUL
AFGHANISTAN
PESHAWAR
KASHMIR
SRINAGAR
RAWALPINDI
JAMMU
LAHORE
SIMLA
PAKISTAN
KARACHI
DELHI
NEPAL
LUCKNOW
KATHMANDU
HASA
ASSAM
RANCHI
CALCUTTA
BHOPAL
INDIA
DACCA
BURMA
BOMBAY
GOA
MADRAS
MYSORE
CEYLON
COLOMBO
KOTARADJA
RANGOON
SIAM
BANGKOK
PHNOM-PENH
VIETNAM
HUE
NHATRANG
INDO CHINA
DALAT
SAIGON
PENANG
JESSELLTON
BRUNEI
BORNEO
MENADO
TERNATE
MINDANAO
BACOLOD
CEBU
PHILIPPINES
S. FERNANDO
MANILA
LUZON
YUNNAN
HANOI
MACAO
HONGKONG
CANTON
HUNAN
KWEICHOW
CHUNGKING
SIANG
FUKIEN
TAIPEI
TAIWAN
RYUKYU
SHANGHAI
NANKING
SZECHUAN
CHINGHAI
KANSU
SINKIANG
TIBET
TIENTSIN
HUPEI
PEKING
MUKDEN
PYONGYANG
SEOUL
INCHON
MOKPU
KOREA
NAGASAKI
KUMAMOTO
FUKUOKA
MATSUYAMA
HIROSHIMA
OSAKA
NAGOYA
TOKYO
SENDAI
JAPAN
CHUNCHON
TAEGU
PUSAN
MANCHURIA
VLADIVOSTOCK
KHABAROVSK
SAPPORO
KOMSOMOLSK
NIKOLAEVSK
JAKUTSK
MAGADAN
ULA BATOR
MONGOLIA
IRKUTSK
KRASNOJARSK
NOVO SIBIRSK
SVERDLOVSK
UFA
MOLOTOV
14
16
18
20

AGRICULTURAL LAND PRODUCE OFFICE RADIO (Go.)
ADDR.: T.M.O. Radio Communications Dept., Ankara.
STATION: TAR8 7651 kc/s 39.22 m 1 kW: W. 10.00–11.00, Sun. 08.00–10.00. – Recorded Turkish & Western Music with ann. in Turkish.

ANKARA BOYS' TECHNICAL TEACHERS SCHOOL
ADDR.: Ankara Erkek Teknik Ogretmen Ökulu, Radyo Servisi, Ankara. – STATION: 6449 kc/s 46.51 m 1 kW: 05.57–09.00. Music.

ANKARA STATE POLICE RADIO
ADDR.: Türkiye Polis Radyosu Emmiyet Genel Müdürlügü, Ankara.
STATION: 6112 kc/s 49.08 m 1 kW: 07.58–09.00, 14.00–15.00: Popular Western recordings, Turkish music and advice about traffic to drivers.

ISTANBUL UNIVERSITY RADIO
ADDR.: Istanbul Fen Fakültesi Radyosu, Istanbul.
STATION: TAO 7545 kc/s 39.76 m 2 kW.

IZMIR MITHAT PASCHA BOYS TECHNICAL INSTITUTE RADIO
ADDR.: Izmir Mithat Pasa Erkek Sanat Enstitüsü, Deneme Radyosu, Karantina, Izmir. – STATION: 7000 kc/s 42.85 m 0.4 kW: 08.28 (Sun. 07.58)–10.00. Music.

NAVAL WAR SCHOOL RADIO
ADDR.: Heybeli-ada Island, near Istanbul. – STATKON: 7154 kc/s 41.95 m: Sun.: 08.30–09.30, 11.30–12.30. – ANN.: "Burasi Deniz Harp Okulu Radyosu".

ROBERT COLLEGE RADIO
ADDR.: Robert College Engineering School, Electrical Engineering Dept., Istanbul.
7025 kc/s 42.70 m 0.08 kW: experimental transmissions.

TECHNICAL SCHOOL OF ISTANBUL
ADDR.: The Technical School, Radio Laboratory, Yildiz, Istanbul.
STATION: TAO5 7143 kc/s 42.00 m 0.1 kW: Sun. 08.00–09.00. D. 16.00–17.00. Western and Turkish recordings.

TECHNICAL UNIVERSITY OF ISTANBUL (Go.)
ADDR.: Teknik Üniversite, Elektrik Fakültesi. Yüksek Frekans Teknigi Laboratuvari, Istanbul.
HOME SERVICE: I.T.Ü.=Istanbul Teknik Üniversitesi.
6299 kc/s 47.62 m 0.5 kW: 18.15–20.00 (exc. Sat.).
7018 – 42.74 – 1 – : 18.15–20.00 (exc. Sat.).
FM: 99.5 mc/s 0.25 kW: 18.15–20.00 (exc. Sat.).
Frequencies are shifted slightly if interference occurs.
PRGR.: National (Turkish) and Classical music. Turkish music: Sun., Tues., Thurs. 18.15–18.45.
ANN.: Turkish: "Burasi Istanbul Teknik Üniversitesi Radyosu". E.: "Here is the Radio Station of the Technical University of Istanbul".
INT.-SIG.: "Turkish March" by Mozart. – V. by letter. R.p.

★ YEMEN ★

L.T.: GMT+3 h. – Pr. L.: Arabic. – E.C.: 127/220 V., A.C., 50 c/s.
RADIO SANAAH (Go.). 5985 kc/s 50.13 m 25 kW: 16.45–18.30. – ANN.: "Huna Sana, dar idha'at al-Mamlakah al-Mutawakkiliyah al-Yamaniyah li ad-Duwal al-Arabiyah al-Muttahida". (This is Sana, broadcasting station of the Mutawakkilite Yemeni Kingdom of the United Arab States).

★ BORNEO, NORTH (British) ★

L.T.: GMT+8 h. – Pr. L.: English, Chinese, Malay, Dusun. – Po.: 400.836. – Rcvrs.: 9500. – E.C.: 230/400 V., A.C. 50 c/s.

NORTH BORNEO BROADCASTING SERVICE (Go.)
ADDR.: Radio Sabah, Information Office, Jesselton. Cable: Infof. For technical matters: The Directors of Posts of Telegraphs. – L.P.: Dir. Broadc. & Inf.: R. J. Brooks. Dir. Tec.: I. de la Harpe.
HOME SERVICE: m.w.: 0.5 kW; s.w.: 5 kW. Call :VQA

Call	kc/s	m		kc/s	m		kc/s	m
–	930	323.0	53	6090	49.26	56	9660	31.06
82	4970	60.36	54	7180	41.78	57	9740	30.80
52	5980	50.17	55	7240	41.44			

HOME SCE.: D. 04.15 (Sat. 03.00)–06.00, 09.00–14.00.
ENGLISH: Sun.–Fri.: 04.30–05.00. Sat.: 03.00–04.00, 04.30–05.00. D. 11.00–11.15, 12.30–14.00 – MALAY: D.: 04.00–04.30, 11.15–12.30. – CHINESE: D.: .05.30–06.00, 09.00–10.00. – DUSUN: D.: 05.00–05.30, 10.00–11.00.
ANN.: "This is Radio Sabah operating in the 50 m.b. from Jesselton, No. Borneo." – INT.-SIG.: Open and close with the sound of No. Borneo native gongs. – V. by QSL-card or letter.

★ BRUNEI (British Colony) ★

L.T.: GMT+8 h. – Pr. L.: Malay, English, Chinese. – Po.: 72.000. – Rcvrs.: 3.000. – E.C.: 400 V., A.C., 50 c/s.

BRUNEI BROADCASTING SERVICE (Go.)
ADDR.: Brunei, No. Borneo. Cable: "Broadcasting". – L.P.: Head of Broad.: J. H. Duclos, Dip. PSA. Chief Eng.: A.T. Dunk, M.B.I.R.E.
HOME SCE.: 09.30–15.00 in English, Malay, Chinese (Mandarin & Hokkien) 970 kc/s 309.9 m 1.5 kW (Reg.st.) – 1110 kc/s 365.2 m 1.5 kW (Reg.st.) – 1240 kc/s 242.1 m 20 kW.
ANN.: E.: "This is Radio Brunei". – Malay: "Inilah Radio Brunei". – V. by QSL-card or letter.

★ BURMA ★

L.T.: GMT+6½ h. – Pr. L.: English, Burmese, Hindustani. – Po.: 19.000.000. – Rcvrs.: 50.000. – E.C.: 220 V., A.C., 50 c/s.

BURMA BROADCASTING SERVICE (Go.)
ADDR.: Prome Rd., Kamayut P. O., Rangoon. – L.P.: Dir. Gen.: U Khin Zaw, BA, FLA. Dir. Adm.: U Pe Thaw, BA, BL. Dir. Tec.: U Win Mg, M.I.R.E.

Call	kc/s	m	kW	h. of tr.
–	955	314.0	50	00.00–17.00
XZK2	4795	62.54	50	00.00–04.00, 10.00–17.00
XZK3	6035	49.71	50	00.00–10.00
XZK4	7125	42.11	50	00.00–04.00, 10.00–17.00
XZK5	9540	31.45	50	05.00–10.00

FM: 100/102/104/106 mc/s – 0.25 kW.
Burmese: N.: 01.05, 06.30 (exc. Mo.). D. 13.15. – Wrp.: 13.28.
Burmese music: D. 01.30–01.50, 13.30–14.13. Sun., Thurs.: 11.15–12.00. Tues., Sat.: 11.00–11.30. – Mbg.: Sun. 13.00.
English: N.: D. 02.00, 07.00. Mo. 15.00. – Wrp.: 15.05. – Mbg.: Wed., Sat. 14.30–15.00. – Hindustani: 02.15–02.30. – N.: 02.22. – Native Dialects: 12.00–12.30.
ANN.: E.: "This is the Burma Broadcasting Service". Burmese: "Myanma Athan Hma Athan Hlwint Nay Barthe". – V. by QSL-card. R.p.

★ CAMBODIA ★

L.T.: GMT+7 h. – Pr. L.: French, Cambodian. – Po.: 4.400.000. – Rcvrs.: 7.200. – E.C.: 220 V., A.C., 50 c/s.

RADIO CAMBODGE (Go.)
ADDR.: No. 28 Avenue Preah Moha Ksatéyany Kassamak, Phnom-Penh.
HOME SERVICE in Cambodian:
1410 kc/s 213.0 m 10 kW – 6090 kc/s 49.26 m 10 kW
4907 – 61.13 – 10 – – 7183 – 41.76 – 10 –
D. 22.30–01.30, 04.00–06.00, 10.00–13.00 on all freq's; D. 13.00–15.00 on 1410/4907 kc/s.
FOREIGN SERVICE on 6090/7183 kc/s: 13.15–14.30. English: 13.15–13.30. French: 14.00–14.30. Thai: 13.30–13.45. Vietnamese: 13.45–14.00.
ANN.: "Ici Phnom-Penh, La Voix du Cambodge, Station de Radio-diffusion Nationale Khmère."

★ CEYLON ★

L.T.: GMT+5½ h. – Pr.L.: English, Sinhalese, Tamil. – Po.: 9.000.000. – Rcvrs.: 220.000.

RADIO CEYLON (Go., Comm.)
ADDR.: Dept. of Broadcasting, P.O. Box 582, Colombo 7. – Cable: "Radceylon".
L.P.: Dir. Gen.: S. B. Senanayake (actg.). Chief Engineer: N. S. Wickremasinghe. Dir. Nat. Sce.: D. T. L. Guruge (acting). Dir. Comm. Sce.: C. R. Dodd. Adm. Assistant: D. P. Wiratunge. Editor Pub.: A. H. F. Porritt. Editor News: E. K. Perera.
STATIONS:

kc/s	m	kW	kc/s	m	kW	kc/s	m	kW
640	469.0	0.25	5020	59.76	10	9520	31.51	10/100
700	428.0	15	6004	49.95	7.5	11770	25.49	35
870	344.8	0.25	6075	49.38	7.5	11835	25.35	35
920	326.0	1	7110	42.19	10	11875	25.26	35
4870	61.60	10	7190	41.72	10	15120	19.84	35
4900	61.22	10	7235	41.47	10	15265	19.65	35
4965	60.42	10	7300	41.09	10	17820	16.84	35

NATIONAL SERVICE
ENGLISH: W. 11.30–17.15 on 920/5020 kc/s. Sun. 04.30–07.30 on 920/7235 kc/s. News, Commentary, Wrp.: W. 12.30, 15.15.
SINHALESE: On 700/7110 kc/s: W. 01.00–03.00, 06.30(Sat. 06.00)–08.00. Sun. 01.00–08.30. – On 700/4900 kc/s: D. 11.30–17.00. News: 01.45, 07.15, 12.30, 15.30. Nat. Music: W. 02.30 (Wed.: Gazal Music, Thurs.: Bhajan Music), 13.15.
TAMIL: On 870/7300 kc/s: W. 01.15–03.00, 06.30–08.00. Sun. 01.15–08.30. On 870/4965 kc/s: 11.30–17.00. News: 02.00, 07.00, 12.30, 15.15.
ANN.: E.: "This is the National Sce. of R. Ceylon". – Tamil: "Illankai Vanalai-Thesiya Oliparappu". – Sinhalese: "Me Lanka Guavan-

viduliye Swadeshiya Pracharayai". – **INT.-SIG.**: All three services open with "National Drums" ("Magul Bera") and close with National Anthem ("Namo Namo Matha").

COMMERCIAL SERVICE

To CEYLON in English, Sinhalese, Tamil:
English: On 920/7235 kc/s: D. 01.30–04.30. Sat. & Sun. 07.30–11.30. On 640/6075 kc/s: Mo.-Fri. 07.30–09.30. On 640/4870 kc/s: D. 11.30–17.30. News (BBC): D.: 02.00, 13.00. – **Sinhalese:** On 640/6004 kc/s: D. 01.30–04.30. Sat. & Sun. 07.30–10.30. On 920/7235 kc/s: Mo.-Fri. 07.30–11.30. – **Tamil:** On 640/6004 kc/s: D. 04.30–05.30. On 640/4870 kc/s: 09.30(Sat. & Sun. 10.30)–12.30.
To ASIA in English, Hindi, Tamil:
English: On 15265 kc/s: D. 01.30–03.30. On 6004/9520 kc/s: D. 12.45–16.30. News (BBC): D.: 02.00, 13.00. **Home News:** D. 12.10. – **Vernacular:** On 9520/15120 kc/s: 01.30–04.30(Sun. 07.30). On 7190 kc/s: 11.00(Sat. 10.30)–17.30.
To So. Ea. ASIA in English: On 17820 kc/s: 09.15–10.45.
ANN.: E.: "This is the Commercial Service of R. Ceylon". – **Sinhalese:** "Me Lauka Velanda Guwan Viduli Sewayai". – **Tamil:** "Illankai Vanali Varthaga, Olipparappu". – **Hindi:** "Yeh R. Ceylon Ka Vyapaar Vibhag Hai". – **INT.-SIG.:** Opens & closes with the theme "Strike up the Band". – **V.:** A Listeners Research Section is being organized. – **PUB.:** R. Times (fortnightly).

VOICE OF AMERICA RADIO STATION IN CEYLON

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS: Short Wave: Colombo 35 kW: 01.00–03.30, 12.00–18.00.

6075 kc/s	49.38 m	11835 kc/s	24.35 m	11875 kc/s	25.26 m
7110 –	42.19 –				
01.00–01.30	English	13.80–14.00	English (6075)	14.30–15.00	Malayalam (6075, 7110)**
02.00–02.30	–	14.00–14.30	English		
03.00–03.30	–	14.30–15.00	E. Bengali (11875)	15.00–15.30	English
12.00–13.30	–		Tamil (6075, 7110)*	15.30–16.00	Hindi
13.30–14.00	W.Bengali (7110–11875)			16.00–16.30	English
				16.30–18.00	Urdu
					English

*) Sun./Mo./Wed./Fri., **) Tues./Thurs./Sat.

★ CHINA ★

THE PEOPLE'S REPUBLIC OF CHINA

L.T.: GMT+8 h. – **Pr.L.:** Chinese. – **Po.:** 650.000.000. – **Rcvrs.:** 3.500.000. – **Loudspeakers for line (wire):** 3.700.000.
Broadcasting Administration (Go.). ADDR.: Broadcasting Administration, Outside Fu Hsing Men, Peking. – **L.P.:** Dir. Gen.: Mei I.

HOME SERVICE

Central People's Broadcasting Station
Medium Waves: 20/150/300 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
560	535.7	640	468.8	730	411.0	1030	291.1	1230	243.9
570	526.3	700	428.6	910	329.7	1090	275.2	1430	209.8
600	500.0	720	416.7	1020	294.1	1160	258.6	1510	198.7

Short Waves: 15/120 kW

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
3915	76.63	6890	43.54	9170	32.72	11455	26.19	15290	19.62
3960	75.76	6995	42.89	9340	32.12	11515	26.05	15445	19.43
3985	75.28	7065	42.46	9390	31.95	11600	25.86	15480	19.38
5030	59.64	7150	41.96	9620	31.19	11630	25.79	15550	19.29
5125	58.54	7170	41.84	9670	31.02	11675	25.70	15590	19.24
5220	57.47	7240	41.44	9715	30.88	11690	25.66	15610	19.22
5860	51.20	7265	41.29	9735	30.82	11860	25.30	15710	19.10
5880	51.02	7370	40.71	9765	30.72	11910	25.19	15880	18.89
6065	49.46	7480	40.08	9860	30.43	11925	25.16	17450	17.19
6100	49.18	7500	40.00	9972	30.08	11935	25.14	17490	17.15
6225	48.19	7620	39.37	10260	29.24	15030	19.96	17533	17.11
6595	45.48	7770	38.61	11100	27.03	15175	19.77	17605	17.04
6790	44.18	9020	33.26	11290	26.57	15240	19.69	17780	16.87
6810	44.05	9064	33.09						

FIRST PRGR.: 20/150/300 kW on 560, 570, 640, 700, 1020, 1030, 1160 kc/s and in 76–49–41–31–25–19–16 m.b. – **Summer & Autumn:** 20.55–02.30, 03.55–06.15, 07.55–18.30 (May–Oct.). **News:** 21.30, 22.15, 23.55, 00.00, 04.15, 10.00, 12.30, 14.30, 15.30. – **Winter & Spring:** 21.25–03.00, 03.55–06.30, 07.55–18.30 (Nov.–Apr.). **News:** 21.30, 22.30, 00.00, 00.30, 04.00, 10.00, 12.30, 15.00, 15.30.
SECOND PRGR.: 20/150/300 kW on 600, 720, 730 kc/s and in 76–49–41–31–25–19 m.b. **Summer & Autumn:** 21.25–08.05, 09.40–16.00 (May–Oct.). **News:** 22.00, 23.00, 02.00, 04.30, 06.00, 08.00, 11.00,

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15.45. **Winter & Spring:** 21.55–08.15, 09.25–16.00 (Nov.–Apr.).
News: 22.15, 23.15, 01.00, 03.00, 04.30, 06.00, 08.00, 11.00, 14.00, 15.45
THIRD PRGR. (to the capital):
820 kc/s 365.9 m: 21.55–00.00, 01.00–01.10
1040 – 288.5 – : 02.25–05.00, 06.15–08.50, 08.55–14.30
1350 – 222.2 – : 21.55–01.00, 05.30–07.30, 11.00–13.10
TO TAIWAN:
Summer & Autumn:
20.55–01.45 on 910, 1090, 1230, 1430 kc/s and in 16, 19, 25, 31 m.b.
02.55–05.35 on 910, 1090, 1230, 1430 kc/s and in 16, 19 m.b.
09.25–16.50 on 1090, 1230, 1430, 1510 kc/s and in 19. 25, 31 m.b.
N.: 21.00 (Standard Chinese), 21.45 (Amoy), 00.30 (Ke-chia), 01.10 (Standard Chinese), 01.25 (Amoy). 03.00 (Standard Chinese), 04.00 (Amoy), 05.00 (Standard Chinese), 05.15 (Amoy). 09.30 (Standard Chinese), 10.15 (Amoy), 12.00 (Ke-chia), 13.30 (Standard Chinese), 14.30 (Amoy), 15.30 (Standard Chinese), 15.45 (Amoy).
Winter & Spring:
21.55–03.00 on 910, 1090, 1230, 1430 kc/s and in 16, 19, 25, 31, 41 m.b.
04.25–07.20 on 910, 1090, 1230, 1430 kc/s and in 16, 19 m.b.
08.55–16.35 on 1090, 1230, 1430, 1510 kc/s and in 16, 19, 25 m.b.
N.: 22.00 (Standard Chinese), 22.40 (Amoy), 01.00 (Ke-chia), 01.40 (Standard Chinese), 02.25 (Amoy), 04.30 (Standard Chinese), 05.30 (Amoy), 06.30 (Standard Chinese), 07.00 (Amoy), 09.00 (Standard Chinese), 10.10 (Amoy), 13.30 (Standard Chinese), 14.00 (Ke-chia), 15.15 (Standard Chinese), 15.45 (Amoy).
TO NATIONAL MINORITIES:
Summer & Autumn:
Korean: 22.00–22.30, 10.30–11.00 on 1020 kc/s – **Tibetan:** 06.30–07.00, 13.00–13.30 in 16, 19 m.b. – **Mongolian:** 04.30–05.00 in 25, 31 m.b., 11.00–11.30 in 31, 49 m.b. – **Chuang:** 22.30–23.00 in 19, 25 m.b., 12.00–12.30 in 16, 19 m.b. – **Uighur:** 00.30–01.00 in 16, 19 m.b., 13.30–14.00 in 16, 19 m.b.
Winter & Spring:
Korean: 22.00–22.30, 10.30–11.00 on 1020 kc/s – **Tibetan:** 06.00–06.30, 11.30–12.00 in 16, 19 m.b. – **Mongolian:** 04.30–05.00 in 25, 31 m.b., 10.30–11.00 in 41, 49 m.b. – **Chuang:** 23.00–23.30 in 25, 31 m.b., 12.00–12.30 in 16, 19 m.b. – **Uighur:** 01.00–01.30 in 16, 19 m.b., 13.00–13.30 in 25, 31 m.b.
LOCAL STATIONS:

	kc/s		kc/s		kc/s
Shanghai	1290, 1110	Fushun	850	Chowshan	1270
	1040, 1500	Penshi	1310	Ningpo	650
	990, 1210	Antung	890, 1400	Wenchow	1450
Hopei	1280	Chinchow	1410	Hanchow	1350
Tientsin	790, 870	Yingkou	1110	Fukien	880, 1470
	1390, 1440	Fusin	1480		4980
	1070, 920	Kirin (prov.)	580	Fuchow	1330
	1520	Kirin (munic.)	1360	Amoy	1110
Chinghai	6260, 6500	Changchun	1330, 1450	Hupei	770, 5020
	9500, 1250	Yenpien	930	Wuhan	1370, 1110
	1010	Shihping	1130	Shasi	1450
Sining	1450	Liaoyuan	1290	Hwangshih	1480
Ningshia	1130	Tunghua	1340	Kwangtng.	1060, 1340
Kiangsu	680	Bacheng	1270	Canton	660, 790
Nanking	1070	Heilung-	3270, 4460		1400
Tangshan	890, 1450	kiang	1200, 250	Hainan	950
Shihchiachuang	1210	Harbin	660, 970	Swatow	1390
Changkiakow	780	Tsitsihar	740	Honan	1420
Chengteh	850	Maotangkiang	750	Kaifeng	970
Paotin	1480	Chiamuszu	610	Sinsiang	1210
Hantan	1370	Hokong	1410	Tsiaotso	1560
Chinwangtao	1370	Ichun	920	Hunan	1260, 3225
Shansi	1100	Shensi	900, 6176		4990
Tatung	1370	Sian	980, 690	Changsha	1530
Changchih	1490	Paochi	1310	Chuchow	1400
Taiyuan	1530	Hanchung	1350	Hengyang	1350
In. Mong.	4068, 6840	Tungchwan	1290	Kinagsi	840
A	6974, 9090	Kansu	7280, 7324	Kingtehchen	1400
	9492, 960		860, 1050	Kwangsi	620, 1120
	1460, 11040	Lanchow	1400		5010
In. Mong.	1380, 820	Yangchow	1370	Liuchow	1330
B	3900	Shuchow	1450	Szechuan	1220, 7225
Paotow	670	Soochow	1330		11000
Huhehouteh	1210	Changchow	1520	Chengtu	750
Tselimumeng	1350	Wusih	1400	Chungking	1080, 1310
Silinkoulehmeng	4525	Nantung	1480	Kweichow	1000, 3260
Payinchaoyuanmeng		Hwain	1530	Tsunyi	1370
	4000	Sinhailien	1350	Yunnan	810, 6925
Ulanchapumeng	1550	Anhwei	940		10005
Chaowutameng	1490	Hofei	1270	Kunming	1410
Ikechaomeng	1530	Wuhu	1490	Sinkiang	910, 740
Liaoning	1240, 218	Anching	1440		4220, 4500
Shenyang	690, 780	Shangtung	1320		4770, 6280
Lushun-Darien		Tsingtao	850, 1490		7050, 7385
	830, 690	Tsinan	750		9470, 10245
Anshan	950	Chekiang	800, 2475	Tibet	9490

RELAY STATIONS of the Central People's Broadcasting Station
First Prgr.: Wuhan 890 kc/s – Shenyang 980 kc/s – Sian 1490 kc/s.
Second Prgr.: Shanghai 610 kc/s – Chungking 710 kc/s.

FOREIGN SERVICE

Medium Wave: 1020 kc/s 294.1 m – **Short Waves:** 120/240 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m	kc/s	m
4620	64.94	7125	42.11	9600	31.25	11910	25.19	15290	19.62
5950	50.42	7135	42.05	9650	31.09	11945	25.12	15417	19.46
5985	50.13	7150	41.96	9665	31.04	11955	25.09	15430	19.44
5990	50.08	7160	41.90	9690	30.96	11965	25.07	15520	19.33
6000	50.00	7200	41.67	9755	30.76	11975	25.05	17675	16.97
6025	49.79	7230	41.49	9775	30.69	11980	25.04	17680	16.79
6035	49.71	7265	41.29	9785	30.66	12010	24.98	17720	16.93
6120	49.02	7295	41.12	9800	30.62	15060	19.92	17730	16.92
6125	48.98	9460	31.72	9860	30.43	15095	19.87	17745	16.91
6145	48.82	9480	31.65	11650	25.75	15115	19.85	17765	16.89
6155	48.74	9500	31.58	11685	25.67	15140	19.82	17810	16.84
6180	48.54	9510	31.55	11750	25.53	15190	19.75	17835	16.82
6200	48.39	9550	31.41	11800	25.42	15235	19.69	17860	16.80
7060	42.49	9555	31.40	11820	25.38	15250	19.67	17885	16.78
7080	42.37	9570	31.35	11860	25.30	15260	19.66	17900	16.76
7115	42.16	9585	31.30	11885	25.24	15270	19.65		

I=South East Asia
II=Australia & New Zealand
III=Japan
IV=Korea
V=India & Pakistan
VI=North Africa & West Asia
VII=Europe
VIII=Eastern North America
IX=Western North America
X=Latin America
XI=Central America
XII=Western Africa
XIII=S.E.Africa
XIIII=Near & Middle East

Languages		Beamed areas	Summer-Autumn	Winter-Spring
Amoy:	00.30–01.00	I	31, 25, 19	49, 25, 19
	09.00–09.30	I	25, 19	25, 19
	10.30–11.00	I	31, 25, 19	31, 25, 19
	12.00–12.30	I	25	25
	23.30–24.00	I	25, 19	25, 19
Arabic:	16.30–17.30	VI	25, 19	49, 31
	18.30–19.30	VI	25, 19	49, 31
Burmese:	01.00–01.30	I	31, 25, 19	49, 25, 19
	12.00–12.30	I	31, 25, 19	31, 25, 19
	14.00–14.30	I	25, 19	25, 19
Cambodian:	11.00–11.30	I	31, 25, 19	31, 25, 19
	14.00–15.00	I	31, 25, 19	31, 25, 19
Cantonese:	02.00–02.30	VIII	19, 16	31, 25
	03.00–03.30	IX	25, 19, 16	25, 19, 16
	10.00–10.30	I	25, 19	25, 19
	16.30–17.00	XIII	19, 16	31, 25
	22.30–23.00	I	31, 25, 19	49, 31, 25
	23.00–23.30	I	25, 19	25, 19
Chaochow:	00.00–00.30	I	31, 25, 19	49, 25, 19
	00.30–01.00	I	25, 19	25, 19
	14.30–15.00	I	25, 19	25, 19
English:	01.00–02.00	VIII	19, 16	31, 25
	02.30–03.30	VIII	19, 16	31, 25
	03.30–04.30	IX	25, 19, 16	25, 19, 16
	08.30–09.30	II	19, 16	19, 16
	09.30–10.30	II	19, 16	19, 16
	12.00–13.00	I	25, 19	25, 19
	15.00–16.00	V	19, 16	31, 25
	17.00–18.00	XIII	19, 16	31, 25
	19.00–20.00	VII	31, 25, 19	41, 31
	20.30–21.30	VII	31, 25, 19	41, 31
	21.30–22.30	XII, VI	31, 25	49, 31
French:	18.30–19.30	VII, VI	25, 19	41, 31
	19.30–20.30	VI, VII	25, 19	41, 31
	21.30–22.30	VI, VII	25, 19	41, 31
Hindi:	14.30–15.00	V	19, 16	31, 25
	16.00–16.30	V	19, 16	31, 25
Indonesian:	08.30–09.00	I	25, 19	25, 19
	10.30–11.30	I	25, 19	25, 19
	14.00–14.30	I	25, 19	25, 19
Japanese:	11.00–12.00	III	294, 31, 25	294, 49, 31
	12.30–13.30	III	294, 31, 25	294, 49, 31
	14.00–14.30	III	294, 41	294, 65
	20.30–21.30	III	294, 31, 25	294, 49, 31
Ke-chia:	00.00–00.30	I	25, 19	25, 19
	09.30–10.00	I	31, 25, 19	31, 25, 19
Korean:	10.30–11.00	IV	31	49
	12.00–12.30	IV	294, 31	294, 49
	13.30–14.00	IV	294, 41	294, 65
Laotian:	12.30–13.00	I	31, 25, 19	31, 25, 19
	13.30–14.00	I	25, 19	25, 19
	23.30–24.00	I	31, 25, 19	49, 25, 19

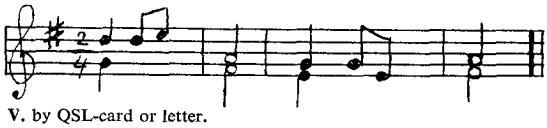
The Broadcasting Centre, Peking

Listen to

RADIO PEKING

Malay:	10.00–10.30	I	31, 25, 19	31, 25, 19
	13.00–13.30	I	31, 25, 19	31, 25, 19
Persian:	15.30–16.00	VI	19, 16	31, 25
	18.00–18.30	VI	25, 19	49, 31
Spanish:	00.30–01.30	X	25, 19	31, 25
	02.00–03.00	X, XI	25, 19, 16	25, 19, 16
	20.30–21.30	VII	25, 19	41, 31
Standard Chinese:	03.30–04.00	VIII	19, 16	31, 25
	04.30–05.00	IX	19, 16	25, 19, 16
	13.00–13.30	I	25, 19	25, 19
	17.30–18.00	VII, VI	25, 19	41, 31
	20.00–20.30	VI, VII	31, 25, 19	49, 41, 31
	22.30–23.00	I	25, 19	49, 31
	23.00–23.30	I	31, 25, 19	49, 31, 25
Thai:	11.30–12.00	I	31, 25, 19	31, 25, 19
	13.30–14.00	I	31, 25, 19	31, 25, 19
	15.00–15.30	I	31, 25, 19	31, 25, 19
Turkish:	17.30–18.00	VI	25, 19	49, 31
	19.30–20.00	VI	25, 19	49, 31
Vietnamese:	11.30–12.00	I	25, 19	25, 19
	13.30–14.00	I	25, 19	25, 19
	15.00–15.30	I	25, 19	25, 19

INT.-SIG.:



V. by QSL-card or letter.

Taiwan (Formosa)

L.T.: GMT+8 h. Su.: April–Oct.: GMT+9 h. – Pr.L.: Mandarin, Cantonese, Amoy, Hakka, Chauchow. – Po.: 10.204.136. – Revrs.: 430.000. – E.C.: 110/200 V, AC, 60 c/s

BROADCASTING CORPORATION OF CHINA

(Private Enterprise under Go. contract)

ADDR.: New Park, Taipei. – Cable: "Broadcast Taipei".

L.P.: Chairman of the Board of Directors: H. C. Liang. Managing Dir. & Dir. Foreign Rel.: J. Wei. Dir. Prgr.: N. Chiu. Dir. Tec.: Shan-Wei Wang.

STATIONS:

Medium Waves: 0.1/0.5/1/20/100 kW.

Taipei, Hsinchu, Miaoli, Taichung, Minhsiung, Chiayi, Tainan, Kaohsiung, Taitung, Yuli, Hualien, Ilan:

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
BED22	660	454	BED25	960	313	BED32	1190	252
BED23	720	416	BED62	1000	300	BED49	1210	248
BED2	750	400	BED53	1020	294	BED47	1280	234
BED28	820	366	BED26	1040	289	BED52	1380	217
BED27	860	349	BED9	1070	280	BED54	1410	212
BED24	890	337	BED72	1120	259	BED48	1450	202
						BED46	1520	197

Short Waves: 0.5/1/3.5/20/50 kW. Taipei, Taichung, Minnsiung:

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
BED59	3215	93.30	BED36	9685	30.98	BED57	15345	19.55
BED44	3965	75.67	BED35	11730	25.58	BED38	15370	19.52
BED29	5980	50.17	BED43	11804	25.42	BED35	15480	19.37
BED64	6095	49.22	BED6	11815	25.40	BED58	17755	16.90
BED73	7155	41.93	BED64	11840	25.34	BED37	17825	16.83
BED7	7230	41.49	BED37	11970	25.06	BED63	17835	16.82
BED66	9575	31.33	BED5	15225	19.70	BED40	17850	16.81
BED33	9660	31.06	BED34	15280	19.63	BED77	17890	16.77

HOME SERVICE:

21.00–16.00 on 660/1070/1190/3215/3965/5980 kc/s

FOREIGN SERVICE: I=No.Am., Hawaii. II=So.EA.Asia. III=Japan/Korea.

Time	Area	kc/s	L.
01.30–01.45	I	7230/9575/11815/15345	English
04.00–06.00	II	7230/11815/15345/17755	
10.05–11.20	III	7230/9575/11815/15345/17890	English/Japanese*
11.30–13.45	II	7230/11815/15345/17755/17890	**
14.00–16.00	II	6095/11815/17835	***

* Sun. also Korean; ** English 12.30–13.30 (Little Dragon Show)
*** Indonesian 14.00–14.30.

ANN.: Home Sce.: E.: "This is the (1st, 2nd, or 3rd) network of BBC". Foreign Sce.: E.: "This is the Voice of Free China, Taipei, Taiwan". V. by QSL-card or letter. – PUB.: prgr.schedule free on request.

CHENG SHENG BROADCASTING CORP. (Rel., Comm.)

ADDR.: 140/6 Chang An West Road, Taipei. – L.P.: Dir.: S. H. Shia.

HOME SERVICES:

	Call	kc/s	m	kW	
1)	BEC36	590	508.6	0.5	23.00–18.00
	BEC36	5995	50.04	0.5	English: 04.15–04.45
	BEC36	7300	41.10	3.5	
2)	BEV34	820	365.9	1	
3)	BEV35	1270	236.2	1	
4)	BEV58	1170	256.4	1	
	BEV58	1290	232.5	1	
5)	BEV36	1130	265.5	1	
6)	BEV72	930	322.6	1	
7)	BEV60	1010	297.0	1	

1) The Voice of Righteousness, Taipei – 2) Cheng Sheng the First Dept., Taipei – 3) Cheng Sheng the Second Dept., Taipei – 4) The Farmers Broadc. Station, Taiching – 5) Yu-lin Broadc. Station, Yu-lin – 6) Kung I Broadc. Station, Chiayi – 7) Cheng Yen Broadc. Station, Kaohsiung.

2)–7): 22.00–16.30.

FU HSING BROADCASTING STATION (Voice of Revival)

ADDR.: P.O. Box 799, Taipei. LP.: Dir.gen.: K.Chi

HOME SCE. in Mandarin: 21.55–02.45, 03.55–06.40, 09.55–16.55 on 16 mw. st's (BEH) & 9755 kc/s. (BEH 22) – V. by letter.

POLICE BROADCASTING STATION (Go.)

ADDR.: No. 1 Tientsin Road, Taipei.

HOME SERVICE: 21.30–23.15, 01.00–05.45, 07.00–16.02 (Sun. 00.00–16.02).

BEC38 0.5 kW: 940 kc/s 319.1 m – 5960 kc/s 50.34 m

ANN.: E.: "This is BEC38 Taiwan Police Broadc. Station in Taiwan, China". – V. by QSL-card or letter. – PUB.: Sched. on request. – F.PL.: New relay st.

TAIWAN COMMERCIAL BROADCASTING STATIONS ASSOCIATION

ADDR.: 22 Lane 81, Maoy Str., Taipei.

Short Wave: 1) BEG23 7180 kc/s 41.78 m 1 kW.

1) You Sze. Broadc. St., 49 Kun Ming St. Taipei: 21.30–24.00, 02.30–05.00, 08.30–14.30.

+ 29 mw. st's not mentioned.

MILITARY BROADCASTING STATIONS (Go.)

ADDR. of Adm.: Military Broadcasting Corps, Ministry of National Defense, Taipei.

STATIONS:

	Call	kc/s	m	kW		Call	kc/s	m	kW
1)	BEC29	730	411.0	1	4)	BEC24	9510	31.55	1.5
		3300	90.91	1	5)	BEC26	800	375.0	1.5
2)	BEC22	1100	272.7	3			1330	225.6	1.5
		1520	197.4	1			5970	50.25	1.5
		7280	41.21	1	6)	BEC25	1350	222.2	1
3)	BEC23	1200	250.0	1			7270	41.27	1
		7240	41.44	1	7)	BEC28	700	428.6	0.5
4)	BEC24	1250	240.0	1.5			5950	50.42	3.5

1) Kinmen, Quemoy: 22.30–01.30, 03.00–05.00, 10.00–14.30.
2) No. 3 Section I, Hsinyi Rd., Taipei: 21.00–23.00, 02.30–06.00, 08.30–15.00.
3) Behind the Taichung Municipal Govt., Taichung: 21.00–23.30, 02.30–06.00, 08.30–14.30.
4) 126 Takanpu, Kaohsiung: 21.00–24.00, 02.30–05.30, 08.30–14.30. – V. by QSL-card.
5) New Army Broadc. Station, Tsoying: as 4).
6) Hualien: 21.00–23.05, 02.30–05.30, 08.30–14.00.
7) No. 3, Section I, Hsinyi Rd., Taipei: 21.00–23.00, 08.30–15.30.

The Military Broadcasting Corps and The Air Force Broadcasting Station are two different organizations. The first belongs to the Political Dept. of Ministry of National Defence, the latter to Headquarters of Chinese Air Force. They are without any relationship on their administration and service.

AIR FORCE BROADCASTING STATION

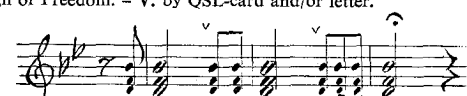
ADDR.: 1st and 2nd Dept.: 1507 Chung Cheng Rd., Taipei.

L.P.: Station Dir.: C. T. Lou. Dir. Tec.: C. S. Luo.

D. PRGR.:

1st Dept.:	BEC32	980 kc/s	306.1 m	1.5 kW	for local
	–	7262 –	41.30 –	3.5 –	reception
2nd Dept.:	BEC34	1440 –	208.3 –	1.3 –	
	–	6106 –	49.14 –	2.5 –	to China
	–	9775 –	30.69 –	3.5 –	mainland

ANN.: "Voice of Chinese Air Force". – INT.-SIG.: (2nd Dept.): Sign of Freedom. – V. by QSL-card and/or letter.



ARMED FORCES RADIO TAIWAN (U.S. Armed Forces

ADDR.: APO63, San Francisco, California, USA.

L.P.: Mgr.: CWO H. L. Arison Jr. Dir. of Prgr.: J. M. Brooks, DNC.

D. Prgr. in English: W. 21.55–16.00. Sun. 23.55–16.00.

1560 kc/s 192 m 1 kW – 7215 kc/s 41.58 m 1 kW

N.: 23.00(W), 01.00, 02.00, 03.00, 06.00, 08.00, 10.00.

ANN.: "Armed Forces Radio Taiwan, in Taipei" followed by time announcement. – V. by QSL-card.

✶ GOA (Portuguese India) ✶

L.T.: GMT+5½ h. – Pr.L.: Portuguese, Concani, English, Indian/Pakistan languages. – Po.: 645.000. – Rcvrs.: 2.000.

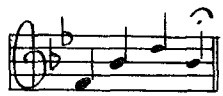
EMISSORA DE GOA (Go., Comm.)
ADDR.: Emissora de Goa, C. de Goa. – L.P.: Pres.: J. de Melo Mogo Moreira. Dir. Tec.: V. A. G. Carvalho.
HOME SERVICE: D.: 01.30–09.30, 11.00(Thurs. 10.30)–17.30.
880 kc/s 340 m 5 kW – 4850 kc/s 61.86 m 10/5 kW d.
9610 – 31.22 – 10/5 –
English: D.: 06.30–07.30 (31, 61, 340), 07.30–08.30 (31, 61), 14.30 (Sun. 13.00)–15.30 (31, 61, 340). – N.: 07.40, 15.00.
Portuguese: D.: 01.32–02.30, 05.30–06.00 (31, 61, 340), 07.30–08.30 (340), 08.30–09.30 (31, 61, 340), 15.30–16.30 (31, 61, 340), 16.30–17.30 (340). – N.: 07.30, 16.15.
ANN.: E.: "Radio Goa – Voice of Goa – Voice of Portugal". P.: "Emissora de Goa – Voz de Goa – Voz de Portugal". – V. by card.

★ HONG KONG (British) ★

L.T.: GMT+8 h. (Su. Apr. to Oct. +9 h.). – Pr.L.: Chinese, English. – Po.: 2.806.000. – Rcvrs.: 84.000. – E.C.: 200/346 V., A.C., 50 c/s.

RADIO HONGKONG (Go.)
ADDR.: Mercury House, P.O. Box 200, Hong Kong. – Cable: "Broadcasts, Hong-Kong". – L.P.: Controller of Broadc.: D. E. Brooks. Dir. Prgr. Chinese: N. Y. Chow. Dir. Prgr. English: T. A. Birch. Dir. Tec.: R. Winyard.
HOME SERVICE:
ENGLISH: ZBW 860 kc/s 348.8 m 2 kW – FM: 92 mc/s 5 kW: Mo.–Fri.: 23.00–01.00, 04.30–06.00, 09.30–15.30. Sat.: 23.00–01.00, 04.30–15.30. Sun. 00.00–15.30. – N.: 24.00, 05.15, 11.00 (BBC), 13.00 (BBC Newsreel). – Wrp.: 23.58, 10.58, 13.13, 14.58.
French Half Hour: Tues. 09.00. – Portuguese Half Hour: Thurs. 09.00.
CHINESE: ZEK 640 kc/s 468.7 m 2 kW – ZBW3 3940 kc/s 76.14 m 2.5 kW – FM: 94 mc/s 5 kW: 23.00–16.00. – N.: 00.00, 05.30, 10.00, 12.00*, 12.30*. – Wrp.: 23.58, 05.28, 11.58, 15.30.
* Rel. Far Eastern Station from London.
ANN.: E.: "This is Radio Hong Kong". Chi.: "Ni do hai Heung Kong Kwong bor deen toy". – V. by QSL-card. R.p. desirable.

HONG KONG COMMERCIAL BROADCASTING CO.
ADDR.: 103 Victory House, Hong Kong. – Cable: "Radioads".
L.P.: Man. Dir.: G. Ho. Head of English Prgr's.: J. Wallace. Head of Chinese Prgr's.: K. K. Lam.
HOME SCE.: 23.00–16.00.
1050 kc/s 286 m 1 kW: Cantonese – 1530 kc/s 196 m 1 kW: English.
Wrp.: 23.30, 05.00, 08.30, 12.00.
ANN.: E.: "Commercial Radio, Hong Kong". – INT.-SIG.: Chimes. V. by letter.



★ INDIA ★

L.T.: GMT+5½ h. – Pr.L.: English, Hindi, Tamil, Indian dialects. – Po.: 387.350.000. – Rcvrs.: 1.562.338. – E.C.: 220 V., D.C., A.C., 50 c/s.

ALL INDIA RADIO (Go.)
ADDR.: Akashvani (AIR) Headquarters, Akashvani Bhavan, Parliament Str., New Delhi. – Cable: "Airgeneral".
L.P.: Dir. Gen.: J. C. Mathur I.C.S. Dep. Dir. Gen.: Prgr.: B. P. Bhatt. Adm.: S. Parameshwaran. Inspection: V. K. Narayana Menon. Dir. Prgr.: Dr. R. M. Marathey. Chief Eng.: A. C. Ramchandani. Dir. News Sce.: M. Sivaram. Dir. External Sce.: Miss M. Masani.
STATIONS:

Medium Waves:	kc/s	m		kc/s	m
Delhi A	886	338.6	Hyderabad	740	405.4
Delhi B	1070	280.4	Bangalore	610	491.8
Lucknow	760	394.7	Dharwar	1360	220.6
Allahabad	980	306.1	West Regional		
Patna	620	483.9	Bombay A	1040	288.5
Jullundur	710	422.5	Bombay B	550	545.5
Jaipur	1120	267.9	Bombay C	1230	243.9
Ajmer	600	500	Nagpur	590	508.5
Indore	650	461.5	Ahmedabad	850	352.9
South Regional			Baroda	850	352.9
Madras A	940	319.1	Poona	780	384.6
Madras B	1420	211.3	Rajkot	910	329.7
Tjruchirapalli	770	389.6	East Regional		
Vijayawada	840	357.1	Calcutta A	670	447.8
Trivandrum	660	454.5	Calcutta B	1000	300.0
Kozhikode	680	441.2	Cuttack	965	310.9
Trichur	580	517.2	Gauhati A	730	411.0

Short Waves: Delhi VUD:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
4940	60.73	9705	30.91	15105	19.86	17760	16.92
4960	60.48	9730	30.83	15120	19.84	17765	16.88
6040	49.67	9740	30.80	15125	19.83	17780	16.87
6190	48.47	9745	30.78	15130	19.83	17785	16.87
7105	42.22	9750	30.77	15135	19.82	17795	16.86
7125	42.11	9850	30.46	15140	19.82	17815	16.84
7140	42.02	11710	25.62	15155	19.80	17820	16.84
7150	41.96	11715	25.61	15160	19.79	17830	16.83
7165	41.87	11730	25.58	15170	19.78	17845	16.81
7170	41.84	11740	25.55	15185	19.76	17850	16.81
7180	41.78	11755	25.52	15190	19.75	17855	16.80
7190	41.22	11765	25.50	15225	19.70	21570	13.91
7290	41.15	11780	25.47	15235	19.69	21605	13.89
9505	31.56	11800	25.42	15240	19.69	21620	13.88
9545	31.43	11805	25.41	15270	19.65	21685	13.84
9575	31.33	11920	25.17	15370	19.52	21690	13.83
9585	31.30	11925	25.16	15480	19.38	21695	13.83
9630	31.15	11940	25.13	17705	16.94	21700	13.82
9670	31.02	11945	25.12	17720	16.93	21710	13.82
9675	31.01	12020	24.96	17730	16.92		

Lucknow (No. Reg. Sce.): 7250 kc/s 41.38 m – 9575 kc/s 31.33 m – 4880 kc/s 61.48 m.
Ranchi (No. Reg. Sce.): 4850 kc/s 61.86 m – 7160 kc/s 41.90 m
Simla (No. Reg. Sce.): 4760 kc/s 63.03 m – 6040 kc/s 49.67 m – 7170 kc/s 41.84 m
Bhopal (No. Reg. Sce.): 4820 kc/s 62.24 m – 7160 kc/s 41.90 m – 9670 kc/s 31.02 m
Madras (So. Reg. Sse.): VUM – 4920 kc/s 60.98 m – 7260 kc/s 41.32 m – 9590 kc/s 31.28 m
Hyderabad (So. Reg. Sce.): 4988 kc/s 60.14 m – 7140 kc/s 42.02 m – 9720 kc/s 30.86 m
Bombay (West Reg. Sce.): VUB – 6150 kc/s 48.78 m – 7240 kc/s 41.44 m – 9550 kc/s 31.41 m – 21650 kc/s 13.86 m – 21705 kc/s 13.82 m
Calcutta (Ea. Reg. Sce.): VUC – 7210 kc/s 41.61 m – 9530 kc/s 31.48 m
Gauhati (Ea. Reg. Sce.): 4775 kc/s 62.83 m – 4940 kc/s 60.73 m – 6130 kc/s 48.94 m – 7125 kc/s 42.11 m – 7150 kc/s 41.96 m – 9505 kc/s 31.56 m – 9575 kc/s 31.33 m

HOME SERVICES

NORTH REG. SCE. (Gujerati, Marathi, Kannada, Hindi, English):
Delhi A: 886 kc/s: D.: 01.00–03.30(Sun. 06.00), 07.00(Sun. 06.30)–08.30, 12.25–17.30. – **4960 kc/s:** 14.30–17.00. – **6190 kc/s:** 12.25–13.00. – **7290 kc/s:** 01.00–03.30(Sun. 06.00). – **9630 kc/s:** 07.00(Sun. 06.30)–08.00.
Delhi B: 1070 kc/s: 01.00–03.30(Sun. 06.00), 07.30–08.30, 12.25–17.30. – **4960 kc/s:** 13.15–14.30. – **9630 kc/s:** 08.00–09.00. – **9705 kc/s:** 13.15–14.15.
Lucknow: 760/7250 kc/s: D. 01.00–03.30(Sun. 05.30). – **760/9575 kc/s:** 07.00–09.00. – **760/4880 kc/s:** 12.30–17.30.
Patna: 620 kc/s: 01.00–03.30(Sun. 04.30), 07.00–09.00, 12.00–17.00.
Ranchi: 4850 kc/s: 12.00–16.00(Sat. 17.30).
Jullundur: 710 kc/s: 01.30–04.00, 06.30–08.30, 12.30–17.00(Sat. 17.30).
Jaipur & Ajmer: 1120/600 kc/s: 01.30–03.00(Sun. 03.45), 07.00(Sun. 06.30)–08.30, 12.30–16.30(Sat. 17.30).
Simla: 7170 kc/s: 01.25–03.00. – **4760 kc/s:** 12.30–15.45(Sat. 17.30).
Indore: 650 kc/s: 01.30–03.30(Sun. 04.00), 07.00–08.30, 12.30–16.30.
Bhopal: 7160 kc/s: 01.30–03.30(Sun. 04.00). – **9670 kc/s:** 07.00–08.30. – **4820 kc/s:** 12.30–16.30(Sat. 17.30).
SOUTH REG. SCE. (Tamil, Telugu, Kannada, Malayalam, English):
Madras A: 940 kc/s: 01.25–02.45(Sun. 03.45), 07.00–09.10(Sun. 10.30, Sat. 07.30–09.30), D. 12.00–17.00(Sat. 17.30).
Madras B: 1420/7260 kc/s: 01.25–02.45(Sun. 04.00). – **1420/9590 kc/s:** 06.30–09.10. – **1420/4920 kc/s:** 12.00–17.00(Sat. 17.30).
Tiruchirapalli: 770 kc/s: 01.30–02.45(Sun. 03.45), 07.00–09.15 (Sun. 06.30–10.30), 11.15–16.30(Sat. 17.30).
Vijayawada: 840 kc/s: 01.00–03.00(Sun. 03.30), 07.00–08.30(Sun. 10.30), 12.30–17.00(Sat. 17.30).
Trivandrum/Kozhikode/Trichur: 660/680/580 kc/s: 01.45–03.15(Sun. 04.30), 07.00–08.20, 12.00–16.30(Sat. 17.30).
Hyderabad: 740/7140 kc/s: 01.00–03.15(Sun. 04.00). – **740/9720 kc/s:** 07.00–09.20(Sat. & Sun. 09.30). – **740/4988 kc/s:** 12.30–17.00.
Bangalore: 610 kc/s: 01.30–03.00(Sun. 04.30), 06.30–08.30(Sun. 09.15), 12.30–17.00(Sat. 17.30).
Dharwar: 1360 kc/s: 01.30–03.30(Sun. 04.00), 12.30–17.00(Sat. 17.30).
WEST REG. SCE. (Gujerati, Marati, Kannada, Hindi, English):
Bombay A: 1040 kc/s: 01.00–03.30, 06.30 (Sun. 05.30)–09.00, 12.00–17.30. – **7240 kc/s:** 01.00–03.30, 12.00–13.30, 15.45–17.30.
Bombay B: 550 kc/s: 01.30–04.00, 06.30(Sun. 05.30)–09.00, 12.00–17.30. – **7240 kc/s:** 03.30–04.00, 13.30–15.45. – **9550 kc/s:** 06.30–09.00.
Nagpur: 590 kc/s: 01.45–03.15(Sun. 04.30), 05.30–06.00, 07.00–08.30, 12.30–17.00(Sat. 17.30).
Ahmedabad/Baroda: 850 kc/s: 01.30–03.30, 07.00–08.30, 12.00–17.00 (Sat. 17.30).
Poona: 800 kc/s: 01.30–03.30(Sun. 04.30), 07.00–08.30, 12.30–17.00
Rajkot: 910 kc/s: 01.30–03.30(Sun. 04.30), 12.00–17.00(Sat. 17.30).

EAST REG. SCE. (Bengali, Oriya, Assamese, Hindi, English):
Calcutta A: 670 kc/s: 01.30–03.30(Sun. 04.30), 07.00–09.30, 11.30–17.00. – **9530 kc/s:** 01.30–03.30, 13.00–17.30. – **7210 kc/s:** 07.00–09.30, 11.30–12.40.
Calcutta B: 1000 kc/s: 01.30–03.30(Sun. 04.30), 07.00–09.30, 11.30–17.00. – **9530 kc/s:** 07.00–09.30, 11.30–12.45. – **7210 kc/s:** 01.30–03.30, 13.00–17.00(Sat. 17.30).
Cuttack: 965 kc/s: 01.15–03.00(Sun. 04.30), 07.30–08.30, 12.00–16.15
Gauhati A: 730/7150 kc/s: 01.15–03.00(Sun. 03.30). – **730/9505 kc/s:** 07.30–08.30(Sun. 07.00–09.30). – **730/4775 kc/s:** 12.00–13.15. – **730/4940 kc/s:** 13.15–16.00(Sat. 17.30).
Gauhati B: 6130 kc/s: 01.30–02.30. – **9505 kc/s:** 10.30–13.00. – **4775 kc/s:** 13.30–15.00.

HOME NEWS in English:
02.30: Delhi B 41, 31, 25, 19, 16 m.b. – Lucknow, Simla 41 m.b. – Bhopal 41 m.b. – Bombay A 41 m.b. – Madras B 41 m.b. – Hyderabad 405, 41 m.b. – Calcutta B 300, 41 m.b. and all m.w. st.
08.00: Delhi B 31, 19, 16 m.b. – Bombay A, Madras B 41 m.b. – Calcutta B 31 m.b.
12.30: Delhi B 31, 25, 19 m.b. – Bombay A 41 m.b. – Madras B 60 m.b. – Calcutta B 31 m.b.
15.30: Delhi B 49, 41, 31, 25, 19 m.b. – Lucknow 394, 61 m.b. – Ranchi 61 m.b. – Simla 63 m.b. – Bhopal 62 m.b. – Bombay A, Madras B 60 m.b. – Hyderabad 405, 60 m.b. – Calcutta 447, 300, 41, 31 m.b. and all m.w. st.
Wrp.: The main Weather Bulletin of the day is broadcast at the end of the mid-day transmission from 21 stations of All India Radio and by Simla, Rajkot, Bhopal, Indore, Dharwar and Ranchi stations (where there is no mid-day transmission) at the end of the night of the transmission in regional languages.

ALL INDIA VARIETY PRGR. (Vividh Bharati):
D. 01.30–03.30 on 1230 (Bombay C)/9590/9675 kc/s. Sun. 04.45–06.30 on 1230/11730/11900 kc/s. – D. 08.30–09.30(Sun. 10.00) on 1230/11730/15190 kc/s. – D. 11.00–12.45 on 1230/11850 kc/s. – D. 13.00–16.15 on 1230/9550/9735 kc/s. Sat. 16.15–17.30 on 1230/5955 kc/s (also 7145 kc/s from 16.30).

EXTERNAL SERVICES

GENERAL SERVICE (for Indians Overseas):

So. Ea. Asia	L.	kc/s	N.
23.15–00.15	Hindi	11830/15105/17805	23.16–23.25
00.15–01.15	Tamil	15105/17705/21660	00.16–00.25
Ea. Africa, Mauritius:			
03.30–04.00	Konkani	17810/21620	03.31–03.40
04.15–04.30	Gujerati	17810/21700	04.15–04.30
04.30–04.40	English	17810/21620	04.30–04.40
04.00–04.15	Hindi	17810/21620	04.01–04.10
15.45–15.55	English	15225/17830	15.45–15.55
16.30–17.15	Gujerati	15270/17830	16.31–16.40
17.15–18.00	Konkani	15270	
17.45–18.45	Hindi	11770/15195	17.46–17.55

EASTERN SERVICE

Burma			
00.30–00.40	English	15170/17780	00.30–00.40
00.40–00.50	Burmese	15170/17780	00.40–00.50
11.15–12.15	Burmese	17705/21650	11.16–11.25
China			
11.45–12.30	Cantonese	17815/21690	11.46–11.56
12.30–13.15	Kuoyu	17815/21690	12.31–12.41
No. Ea. Asia			
10.00–11.00	English	15125/17705/21620	10.01–10.10
Australia/New Zealand			
10.00–11.00	English	17795/21690	10.01–10.10
Tibet, Sikkim, Bhutan			
12.30–13.15	Tibetan	12020/15105	12.45–12.55
Indonesia			
22.45–23.00	Indonesian	11710/15105	
12.15–13.15	Indonesian	9650/17785/21650	12.16–12.26
East Asia			
11.15–11.30	French	17810/21690	11.19–11.29
So. Ea. Asia			
13.30–14.30	English	17705/21605	13.31–13.40
Pakistan			
03.20–03.30	Urdu	6190/9750	
08.40–08.50	Urdu	9745/11830/15105/17815	
15.45–16.00	Urdu	6040/6085/7165/9705/ 9850/12020/15480	

WESTERN SERVICE

Afghanistan			
02.45–03.00	Pushto	7190/9555	02.49–02.59
14.45–15.30	Pushto	9585	14.50–15.00
Iran (* not Sat.)			
03.45–04.00	Persian	15105/17850	03.50–03.59
16.15–17.15*	Persian	11860/15300	16.16–16.26
Near Ea., No. Africa			
05.00–05.30	Arabic	17705/21710	05.05–05.15
17.30–18.30	Arabic	11905/15105	17.40–17.50
Ea. Africa			
15.55–16.30	Swahili	15225/17830	15.56–16.06
We. Africa			
19.45–20.45	English	11800/15120	19.46–19.55
U.K. & We. Europe			
19.45–20.45	English	11710/15105	19.46–19.55
We. Asia			
18.45–19.30	French	11905/15105	18.50–19.00
Portugal, We. Europe			
19.00–19.30	*Portuguese*	9610/11765	19.01–19.10

The frequencies and wavelengths given above are those AIR expects to use during the month of Sept. 1959 and onwards. There will, however, be changes in frequencies from time to time and listeners are advised to listen to announcements which will cover all such changes. Detailed information can be obtained from the Programme Journal.
ANN.: Home Sce.: "This is All India Radio". **External Sce.:** "This is *Delhi calling in the External Services of All India Radio*".
INT.-SIG.: All India Radio's signature is a melody of eight second's duration repeated with intervals of 10 seconds in between. The Instruments used are violin, viola, cello and tampura.

V. by QSL-card. – **PUB.:** "India Calling" free of charge. – Weekly prgr.journal in English and fortnightly prgr.journals in Hindi, Urdu, Tamil, Telegu, Gujerati and Bengali. Requests for free supply of copies may be made either to the Director of External Services of All India Radio, New Delhi or through the Indian Diplomatic Mission concerned. For Home prgr. journals request may be made to the Director General, All India Radio, New Delhi.

RADIO KASHMIR

SRINAGAR A: 1490 kc/s 201.3 m.
In English, Kashmiri, Urdu: 02.00–04.00, 07.00(Sun. 06.30)–08.50, 12.15–17.30.
SRINAGAR B: 6110 kc/s 49.10 m: 02.00–04.00. – 7270 kc/s 41.27 m: 07.00(Sun. 06.30)–08.50. – 4860 kc/s 61.73 m: 12.15–17.30.
JAMMU: 990 kc/s 303.0 m: 02.00–03.30(Sun. 04.30), 06.30–08.00, 13.00–17.30.

★ INDONESIA ★

L.T.: GMT+9 h. – **Pr.L.:** Indonesian, Hindi, Urdu, Arabic, Chinese, English. – **Po.:** 88.000.000. – **Rcvrs.:** 1.000.000. – **E.C.:** 125/200 V., A.C., 50 c/s.

RADIO REPUBLIK INDONESIA (Go.)

ADDR.: P.O. Box 157, Djakarta. – **Cable:** RRI.
L.P.: Dir. Gen.: R. Maladi. Dir. Home Sce.: Soekirmann. Dir. Overseas Sce.: R. Soetojo. Dir. News Sce.: Harto (Acting). Act. Dir. Tec. Sce.: R. M. Soenario. Dir. Gen. Affairs: R. S. Hardjoloekito. Dir. Pub. Rel.: R. M. Soemarmadi.
Stations: Bandung: L. S. Tonaro. – Semarang: R. M. Kindarsy. – Solo: O. Soemowidjojo. – Surabaja: R. M. Sachlan. – Padang: T. Harahap (acting). – Bukittinggi: A. Gus (acting). – Palembang: M. Koesoemo. – Bandjarmasin: Kjaswadi. – Denpassar: R. B. K. Naftali. – Amboina: F. P. Likumahwa. – Pontianak: S. Karsomihardjo. – Kotaradja: A. Azis. – Menado: Soedomo. – Sibolga: Socbibjo (acting). – Tandjung Pinang: Soemitro. – Tjirebon: Soetarjo. – Ternate: H. Sastrohamidjojo. – Djember: K. Albari. – Madiun: Mardjuki. – Kupang: Armirudin (acting). – Soa Siu: Masud (acting). – Gorontalo: Parengkuan. – Mataram: S. Dwidjoatmodjo.

HOME SERVICES

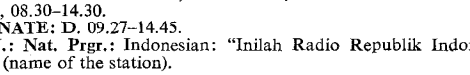
Djakarta (Java Central Station)				Call	kc/s	m	kW
Call	**kc/s**	**m**	**kW**	YDJ	5060	59.29	7.5
YDB	2460	121.95	1	YDJ2	7255	41.36	20
YDD	3277	91.54	1	**Madiun** (E. Java: relay)			
YDB4	3375	88.89	7.5	YDG	3286	91.26	0.3
YDB2	4805	62.42	7.5	**Semarang** (C. Java)			
YDF	6045	49.63	100	YDH	2490	120.48	1
YDB3	7270	41.26	7.5	YDH2	3935	76.24	5
YDE	11770	25.49	7.5	YDH3	7210	41.61	5
YDC	15150	19.80	7.5	**Surabaja** (E. Java)			
Bandung (W. Java)				YDI3	2370	126.50	1
YDA2	2420	123.96	0.25	YDI2	3975	75.48	10
YDA	3205	93.60	10	YDI4	6120	49.02	5
YDA3	4945	60.67	10	**Surakarta** (C. Java)			
Djember (E. Java: relay)				YDG2	2440	122.90	1
YDI	2330	128.74	0.3	YDG3	4875	61.54	10
Jogjakarta (C. Java)				**Tjirebon** (W. Java: relay)			
YDJ3	2350	127.65	1	YDA6	2390	125.5	0.3

Call	kc/s	m	kW
Padang (S. Sumatra)			
YDL2	2480	120.90	1
YDL	3960	75.76	10
YDL3	6170	48.62	10
Palembang (S. Sumatra)			
YDK2	2430	123.50	1
YDK	4855	61.79	10
Bukittinggi (N. Sumatra)			
YDM	3305	90.77	0.3
Kotaradja (N. Sumatra)			
YDN	2390	125.50	0.1
YDN2	4985	60.18	1
Medan (N. Sumatra)			
YDP2	3395	88.37	1
YDP	5030	59.64	7.5
YDP3	7240	41.44	20
Sibolga (Sumatra: relay)			
YDM6	2330	128.5	1
YDM7	3241	92.56	1
Bandjarmasin (Kalimantan)			
YDO	3250	92.31	10
YDO2	5970	50.25	1
Pontianak (Kalimantan)			
YDW	2350	127.6	1
YDW2	3375	88.89	5
Samarinda (Kalimantan: relay)			
YDY	3295	91.00	1
Makassar (Sulawesi)			
YDQ4	2490	120.5	0.3
YDQ	4750	63.16	3

Call	kc/s	m	kW
YDQ3	7295	41.12	20
YDQ2	9550	31.41	0.5
Menado (Sulawesi)			
YDS	3214	93.34	1
YDS2	5990	50.08	1
Gorontalo (Sulawesi)			
YDS	4900	61.22	1
Denpassar (Bali)			
YDU7	2420	123.96	1
YDU2	3945	76.05	10
YDU6	7118	42.14	10
Ambon (Maluku)			
YDR3	3241	92.56	10
YDR2	7140	42.02	1
Ternate (Maluku: relay)			
YDZ	2460	121.95	1
YDZ2	3915	76.64	5
Tdj., Pinang (Sumatra: relay)			
YDX	3223	93.09	0.3
YDX2	4920	60.98	1
Kupang (Nusa Tenggara)			
YDV	3259	92.05	0.3
Mataram (Nusa Tenggara)			
YDX	3223	93.09	1
Singaradja (Nusa Tenggara)			
YDU	4840	61.98	0.3
Sumenep (Madura)			
YDI20	3355	89.41	0.3
Soa Siu (West Irian Province)			
YDT	3960	75.75	1

DJAKARTA: Nat. Prgr. on 2460, 6045, 11770 (only W. 04.30–07.15), 3375 kc/s (only D. 09.30–15.30). **W.**: 22.30–00.45, 04.30–07.15, 09.30–15.30. **Sun.**: 23.30–07.15, 09.30–15.30.
N.: 22.30(W), 23.00, 00.30, 05.00, 06.00, 07.00, 11.30, 12.30, 14.30. **Mbg.**: Sat. (fortnightly): 13.30–13.45. **Wrp.**: Thurs. 11.45.
Home Prgr. on 3277, 7270 kc/s.
English: 12.30–12.58. – **N.**: 12.32, 12.55.

BANDUNG: W.: 22.27–00.30, 05.27–07.30, 09.30–15.30. **Sun.**: 23.27–07.30, 09.30–15.30.
DJEMBER: D.: 22.30 (Sun. 23.25)–00.45, 09.30–15.30.
JOGJAKARTA: W.: 22.27–00.40, 05.27–07.30, 09.27–15.30. **Sun.**: 23.27–07.30, 09.27–15.30.
MADIUN: W.: 22.28–00.45, 09.30–15.30. **Sun.**: 23.28–07.30, 09.30–15.30.
SEMARANG: W.: 22.27–00.45, 05.27–07.30, 09.27–15.30. **Sun.**: 23.25–07.30, 09.27–15.30.
SURABAJA: W.: 22.28–00.45, 05.25–07.30, 09.28–15.30. **Sun.**: 23.25–07.30, 09.28–15.30.
SURAKARTA: W.: 22.25–00.45, 05.25–07.30, 09.25–15.30. **Sun.**: 23.25–07.30, 09.25–15.30.
TJIREBON: W.: 22.28–00.45, 05.28–07.30, 09.30–15.30. **Sun.**: 23.28–07.30, 09.30–15.30.
PADANG: W.: 23.27–01.30, 06.27–08.30, 10.27–16.30. **Sun.**: 00.27–08.30, 10.27–16.30.
PALEMBANG: W.: 22.57–01.00, 05.57–08.00, 09.57–16.00. **Sun.**: 23.57–08.00, 09.57–16.00.
BUKITTINGGI: as Padang.
MEDAN: W.: 23.27–01.30, 06.27–08.15, 10.27–16.30. **Sun.**: 00.27–08.15, 10.27–16.30. – **SIBOLGA: D.** 10.27–16.30.
BANDJARMASIN: W.: 22.28–00.45, 05.28–07.30, 09.30–15.30. **Sun.**: 23.28–07.30, 09.30–15.30.
PONTIANAK: D. 09.30–15.30. – **SAMARINDA: D.** 09.25–15.30.
MAKASSAR: W.: 21.57–24.00, 04.57–07.00, 08.57–15.00. **Sun.**: 22.57–07.00, 08.57–15.00.
MENADO: W.: 22.00–24.00, 05.00–06.42, 09.00–15.00. **Sun.**: 23.00–06.42, 09.00–15.00.
DENPASSAR: W.: 22.25–00.45, 05.25–07.30, 09.30–15.30. **Sun.**: 23.25–07.30, 09.30–15.30.
AMBON: W.: 21.30–23.40, 04.27–06.00, 08.30–14.30. **Sun.**: 22.30–06.00, 08.30–14.30.
TERNATE: D. 09.27–14.45.
ANN.: Nat. Prgr.: Indonesian: "Inilah Radio Republik Indonesia di... (name of the station).
INT.-SIG.: Nat. Prgr.:



played on hammond organ by Sudarnoto. **V.** by QSL-card or letter.

FOREIGN SERVICE FROM DJAKARTA

	kc/s	m	kW
YDD	1111	270.0	2.5
YDD	3277	91.55	1
YDF5	7220	41.55	50
YDB3	7270	41.27	7.5
YDF6	9585	31.30	50
YDF6	9710	30.90	50
YDF8	9865	30.40	50
YDF2	11770	25.49	100
YDE	11770	25.49	7.5
YDF2	11785	25.46	100
YDF3	11795	25.43	100
YDC	15150	19.80	100
YDF4	17810	16.84	50

English: 11.00–12.00 (Au., NZ., Pa.), 14.30–15.30 (So.Ea.As., India) 9585/11785 kc/s; 19.00–20.00 (Eu., NZ.) 9865/11785 kc/s.
French: 15.30–16.30 (Indo-China, So.Ea.As.) 1111/3277/7270 kc/s; 17.00–18.00 (Eu., M.E., Af.) 9865/11785 kc/s.
Indonesian: 18.00–19.00 (M.E., Eu.) 9865/11785 kc/s; 01.00–02.00 (Am., So.Ea.As.) 9585/11785 kc/s.
Chinese: 12.00–13.00 (Ea.As.) 9585/11785 kc/s.
Arabic: 13.00–14.00 (So.Ea.As.) 9585/11785 kc/s.
Hindi: 15.30–16.00 (So. & So.Ea.As., Af.) 9585/11785 kc/s.
Urdu: 14.00–14.30 (So. & So.Ea.As.) 9585/11785 kc/s.

ENGLISH PRGR.:
N.: 11.15, 14.45, 19.15. – **"Indonesia in Word and Music"**: Mo. 11.42, 15.12, 19.42. – **"Spotlight on Indonesia"**: Tues.: 11.35, 15.05, 19.35. – **"My Country and my People"**: Thurs.: 11.35, 15.05, 19.35. – **"Indonesian Music"**: Sun.: 11.27, 14.57, 19.27. Fri.: 11.02, 14.32, 19.02. Sat.: 11.43, 15.13, 19.43. – **"Turntable Time"**: Tues.: 11.43, 15.13, 19.43. (Request Prgr. consisting of Western songs and popular Indonesian tunes).

INDONESIAN PRGR.: N.: 18.15, 18.55, 01.15, 01.55.
ANN.: E.: "This is the Voice of Indonesia broadcasting from Djakarta". **F.**: "Ici Djakarta, la voix de l'Indonésie".
INT.-SIG.: Some instrumental music in accordance with the genre of the next prgr. - **V.** by QSL-card or letter. Listeners rep.s are welcome.
PUB.: Weekly: "Pedoman Radio", "Berita Radio" (home prgr.). – Monthly: "Voice of Indonesia" (Foreign broadc. in Indonesia, Hindi, Urdu, Chinese, Arabic, English, French, Dutch); "Saut Indonesia" in Arabic. – Write to "Voice of Indonesia", RRI. P.O. Box 157, Djakarta.

★ JAPAN ★

L.T.: GMT+9 h. – **Pr.L.**: Japanese. – **Po.**: 89.275.529. – **Rcvrs.**: 14.290.724. – **E.C.**: 100/200 V., A.C., 50 c/s.

NIPPON HOSO KYOKAI (Public Corporation, non-commercial) (The Japan Broadcasting Corporation)
ADDR.: No. 2, 2-chome, Uchisaiwai-cho, Chiyda-ku, Tokyo. – **Cable:** Radio NHK, Tokyo.
L.P.: Chairman, Board of Governors: Shinnosuke Abe. Pres., NHK: Hideo Nomura. Vice Pres.: K. Mizokami. Man. Dir.'s: Y. Maeda, Y. Tanabe, K. Ono. Auditors: S. Shibata, Y. Hashimoto, K. Sugimoto. Dir. Planning Dept.: T. Akimoto. Dir. Auditing Chamber: K. Shibahashi. Dir. Prgr. Examination Chamber: M. Miyagawa. Dir. Gen. Affairs Dept.: M. Akagi. Dir. Finance Dept.: Y. Kasuga. Dir. Public Rel. Dept.: K. Sudo. Dir. Prgr. Management Dept.: S. Shimaura. Dir. Education Dept.: H. Asanuma. Dir. Entertainment Dept.: Y. Yoshikawa. Dir. News Dept.: H. Sano. Dir. International Broadc. Dept.: I. Matsui. Dir. Radio & TV Culture Research Institute: I. Nihira. Dir. Eng. Dept.: F. Mikuma. Dir. Tech. Operation Dept.: H. Goto. Dir. Tech. Research Lab.: S. Shima.

STATIONS:

MEDIUM WAVES: The medium-wave (535–1650 kc/s) transmitters are used for domestic radio service in the 1st and 2nd networks, both extensive enough to place the entire country under coverage.

Stations	Call	kc/s	kW
Tokyo 1	JOAK	590	100
– 2	JOAB	690	100
Nagano 1	JONK	840	1
– 2	JONB	1420	0.5
Niigata 1	JOQK	850	10
– 2	JOQB	1030	10
Kofu 1	JOKG	620	0.5
– 2	JOKC	1420	0.5
Matsumoto 1	JOSG	780	1
– 2	JOSC	1490	0.5
Iida 1	JOSQ	840	0.5
– 2	JOSZ	1530	0.5
Ina 1	JOUT	1340	0.05
– 2	JOUT	1540	0.05
Komoro 1	JONQ	1040	0.05
– 2	JONZ	1540	0.05
Takata 1	JOQX	1160	0.1
– 2	JOOV	1360	0.1
Okaya-Suwa 1	JOSU	1160	0.1
– 2	JOSI	1360	0.1
Kiso-Fukushima 1		1040	0.1
2		1340	0.1
Fuji-yo-shida 1	JOYP	1340	0.1
Osaka 1	JOBK	670	100
2	JOBB	830	100

Stations	Call	kc/s	kW
Kyoto 1	JOOK	1320	1
– 2	JOOB	1490	1
Fuku-chiyama 1	JOOT	1040	0.05
– 2	JOOS	1360	0.05
Toyooka 1	JOBU	1160	0.05
– 2	JOBV	1540	0.05
Hikone 1	JOBS	1340	0.1
Shingu 1	JOBQ	1040	0.05
– 2	JOBY	1360	0.05
Maizuru 1	JOOQ	1360	0.1
– 2	JOOZ	1540	0.1
Tanabe 1	JOBT	1160	0.1
– 2	JOTD	1540	0.1
Nagoya 1	JOCK	730	10
– 2	JOCB	910	10
Kanazawa 1	JOJK	1230	10
– 2	JOJB	1390	10
Shizuoka 1	JOPK	880	3
– 2	JOPB	1080	3
Fukui 1	JOFG	600	1
– 2	JOFC	1530	1
Hamatsu 1	JODG	620	0.5
– 2	JODC	790	0.5
Toyama 1	JOIG	600	1
– 2	JOIC	1530	1

Japan

Stations	Call	kc/s	kW
Takayama 1	JOCQ	620	0.5
– 2	JOCZ	790	0.5
Ueno 1	JOCT	1160	0.1
Owase 1	JOCU	1160	0.1
– 2	JODS	1540	0.1
Tsuruga 1	JOFT	1040	0.05
– 2	JOFZ	1420	0.05
Obama 1	JOFY	1160	0.1
– 2	JOFQ	1360	0.1
Toyohashi 1	JOCS	1160	0.1
– 2	JOCV	1360	0.1
Nanao 1	JOJU	1340	0.1
Nakatsugawa 1		1160	0.1
Hiroshima 1	JOFK	770	10
– 2	JOFB	1050	10
Okayama 1	JOKK	960	1
– 2	JOKB	1440	1
Matsue 1	JOTK	1110	10
– 2	JOTB	1330	10
Tottori 1	JOLG	1260	0.5
– 2	JOLC	1490	0.5
Onomichi 1	JODP	1200	1
– 2	JODD	1600	0.5
Hofu 1	JOUG	680	3
– 2	JOUC	1420	3
Hamada 1		1040	0.1
– 2		1360	0.1
Hagi 1	JOUQ	960	0.5
– 2	JOUZ	1440	0.5
Masuda 1		1340	0.1
– 2		1540	0.1
Tsuyama 1	JOKU	1160	0.1
– 2	JOKT	1540	0.1
Shobara 1		1160	0.05
– 2		1360	0.05
Yonago 1	JOLO	1200	1
– 2	JOLU	1470	0.1
Tsuwano 1		1160	0.1
– 2		1360	0.1
Kyrayoshi 1		1040	0.1
– 2		1360	0.1
Shimo-noseki 1	JOUI	1160	0.1
Niimi 1	JOKI	1340	0.1
Kumamoto 1	JOGK	930	10
– 2	JOGB	1350	10
Fukuoka 1	JOLK	610	100
– 2	JOLB	870	100
Kokura 1	JOSK	540	0.1
– 2	JOSB	720	0.1
Nagasaki 1	JOAG	660	0.5
– 2	JOAC	1470	0.5
Kagoshima 1	JOHG	980	10
– 2	JOHC	1410	10
Miyazaki 1	JOMC	620	0.5
– 2	JOMC	790	0.5
Oita 1	JOIP	660	0.5
Oita 2	JOID	1470	0.5
Saga 1	JOSP	780	0.5
– 2	JOSD	1420	0.5
Sasebo 1	JOAT	540	0.1
– 2	JOAY	720	0.1
Hitoyoshi 1		1160	0.1
– 2		1360	0.1
Nobeoka 1	JOMT	540	0.5
– 2	JOMX	1420	0.5
Saeki 1		1160	0.05
– 2		1440	0.05
Miyako-nojo 1	JOMQ	1340	0.1
Hita 1	JOIV	1040	0.05
Karatsu	JOSV	1160	0.05
Akune 1		1040	0.1
Kobayashi		1040	0.1
Nichinan		1140	0.1
Sendai 1	JOHK	890	10
– 2	JOHB	1090	10
Akita 1	JOUK	1290	1
– 2	JOUB	1520	1
Yamagata 1	JOJG	540	1
Yamagata 2	JOJC	1470	0.5
Hirosaki 1	JORG	1320	0.5
– 2	JORC	1600	0.5
Morioka 1	JOQG	650	10
– 2	JOQC	990	10
Fukushima 1	JOFP	620	0.1
– 2	JOFD	720	0.1
Kooriyama	JOCP	660	1
– 2	JOCD	1510	1
Aomori 1	JOTG	700	1
– 2	JOTC	790	0.5
Tsuruoka 1	JOJP	660	1
– 2	JOJD	1470	0.5
Kamaishi 1		1200	0.05
– 2		1470	0.05
Taira 1	JOHQ	1040	0.1
– 2	JOHZ	1540	0.1
Hachinohe 1	JOTQ	1260	0.5
– 2	JOTZ	1490	0.5
Wakamatsu 1	JOHT	1160	0.1
– 2	JOHY	1540	0.1
Odate 1		1160	0.05
– 2		1360	0.05
Miyako 1		1040	0.05
– 2		1360	0.05
Yonezawa 1	JOJQ	1040	0.05
– 2	JOJZ	1360	0.05
Yokote 1		1160	0.1
– 2		1360	0.1
Shinjyo 1	JOJS	1340	0.05
– 2	JOJT	1540	0.05
Kesennuma 1	JOHS	1160	0.05
– 2		1540	0.05
Ofunato 1	JOQY	1040	0.05
Sapporo 1	JOIK	570	100
– 2	JOIB	750	100
Hakodate 1	JOVK	600	1
– 2	JOVB	1440	0.5
Asahikawa 1	JOCG	620	0.5
– 2	JOCC	1420	0.5
Obihiro 1	JOOG	960	0.5
– 2	JOOC	1080	0.5
Kushiro 1	JOPG	840	0.5
– 2	JOPC	1420	0.5
Kitami 1	JOKP	1170	10
– 2	JOKD	1370	10
Muroran 1	JOIU	960	0.5
– 2	JOIT	1080	0.5
Rumoi 1	JOIX	1340	0.05
– 2	JOCI	1540	0.05
Wakkanai 1	JOIQ	1300	0.5
– 2	JOIY	1470	0.5
Esashi 1		1040	0.05
– 2		1360	0.05
Nayoro 1	JOCY	780	1
– 2	JOAZ	1530	1
Nemuro 1	JOPQ	1040	0.1
Nakashibetsu		1160	0.1
Matsuyama 1	JOZK	1300	1
– 2	JOZB	1510	1
Kochi 1	JORK	1150	10
– 2	JORB	1430	10
Tokushima 1	JOXK	1260	0.5
– 2	JOXB	1600	0.5
Takamatsu 1	JOHP	540	0.5
– 2	JOHD	720	0.5
Uwajima 1	JOZU	1040	0.05
– 2	JOZY	1360	0.05
Niihama 1	JOZQ	1340	0.05
– 2	JOZZ	1540	0.05
Imabari 1	JOZT	1160	0.05
Nakamura 1	JORQ	1200	0.5
– 2	JORY	1600	0.5
Yawata-hama 1	JOZS	1340	0.05
– 2	JOZI	1540	0.05
Yusuhara 1	JORS	1160	0.1
Johen 1	JOZV	1340	0.05
Ikeda 1	JOXI	1160	0.1
Kannonji 1		1040	0.1

FM: JOAK-FMX Tokyo 87.3 mc/s, JOBK-FMX Osaka 88.1 mc/s 1 kW exp.: 03.00–07.00.

HOME SERVICE:

1st Network: D. 20.00–15.00. – **Japanese Music:** Mo. 14.10–14.30, Tues. 13.30–13.45. – N.: D. every h. on the h., exc. 11.00, 15.00; also daily from 14.55. – **Commentary:** D. 12.05, W. 02.05. – **Mbg.:** W. 21.50. **Wrp.:** W. 21.13, 00.05, 02.57, 08.55, 13.07, 14.05. – **Weather Map.:** W. 07.05.

2nd Network: D. 20.30–15.00. – **Japanese Music:** Mo.-Fri. 05.30–06.00, Fri. 12.00–12.55, Sat. 14.00–14.30. – N.: D. 21.55, 03.55, 11.00. – **Weather Map:** D. 00.00, 13.45. – **English:** W. 09.00–09.05. The two networks together are on the air for a grand total of 37.5 hours. – School. prgr.s are specially presented over the 2nd network for 3.5 hours between 09.00 and 14.00.

All prgr.s are also relayed on short wave simultaneously.

HOME SERVICE RELAYS ON SHORTWAVES:

1st Network:

JKH 7257.5 kc/s 41.33 m : 20.00–22.15, 07.55–10.00
JKH2 9655 – 31.07 – : 22.25–07.45

2nd Network:

JKI 7285 kc/s 41.18 m : 20.30–10.00

FOREIGN SERVICE

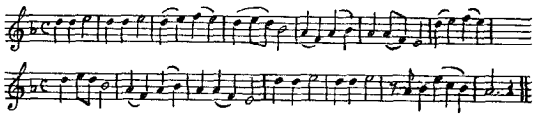
STATIONS: 50 or 100 kW.

Call	kc/s	m	kc/s	m	kc/s	m
JOA6/JOB6:	6069	49.43	6080	49.34		
JOA7/JOB7:	7180	41.78	7242.5	41.42		
JOA9/JOB9:	9525	31.50	9675	31.01	9695	30.94
JOA11/JOB11:	11705	25.63	11725	25.58	11780	25.47
– –	11800	25.42	11940	25.13	11965	25.07
JOA15/JOB15:	15135	19.82	15225	19.70	15235	19.69
– –	15325	19.58				
JOA17/JOB17:	17755	16.89	17785	16.87	17795	16.86
– –	17825	16.83	17845	16.81	17855	16.80
JOA21/JOB21:	21620	13.87				

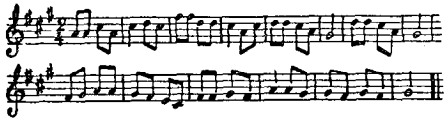
I=South Asian Sce.; II=Middle East Sce.; III=European Sce.; IV=North American Sce.; V=Latin American Sce.; VI=North American & Hawaiian Sce.; VII=Australia & New Zealand Sce.; VIII=Asian Continent Sce.; IX=Philippine & Indonesian Sce.; X=South-East Asian Sce.; XI=General Asian Sce.

15.00–16.30	I	9525/11965	Hindi, **English**, Urdu, Japanese
16.45–18.45	II	11705/15325	Arabic, **French, English,** Japanese
19.00–21.00	III	11705/15325	Russian, **German, French, Italian, English,** Japanese
00.30–01.30	IV	15325/17855	**English,** Japanese
03.00–04.00	V	15325/17855	**Spanish,** Japanese
05.00–07.00	VI	9525/11705	**English,** Japanese
		15235	
07.30–08.30	III	17855/21620	**English,** Japanese
09.00–10.30	V	9525/11705	**Portuguese,** Japanese, **Spanish**
09.30–10.30	VII	11940/15235	**English,** Japanese
10.45–12.45	VIII	9525/11705	Standard Chinese, Russian, **English,** Japanese
11.30–13.00	IX	15325/17855	**English,** Indonesian
13.00–16.00	X	9525/11705	Chinese, **French,** Thai, **English,** Japanese
01.00–01.30	XI	15135	**English,** Japanese
03.00–04.00		15135	
05.30–06.30		15135	
10.00–10.30		15135	
12.00–14.30		11800	

NEWS:
English: 15.25 (I), 17.40 (II), 20.25 (III), 01.00 (IV), 05.30 (VI), 07.30 (III), 09.30 & 10.00 (VII), 11.30 (IX), 12.20 (VIII), 15.05 (X).
French: 17.15 (II), 20.00 (III), 14.10 (X).
German: 19.30 (III). – **Italian:** 20.10 (Sun. only) (III).
Portuguese: 09.00 (V). – **Spanish:** 03.00 (V), 10.15 (V).
DX-PRGR. (English): Every 3rd and 5th Fri./Sat. as of the month as follows:
Fri. 05.10 (VI); Sat. 08.10 (III), 09.55 (VII), 12.10 (IX), 18.25 (II); Sun. 00.55 (IV).
JAPANESE MUSIC:
English: Mo. 20.40, Tues. 05.50, 07.45; Thurs. 05.50, 09.45, 11.45, 15.40, 18.20; Fri. 00.45. – **French:** Thurs. 20.15; Fri. 17.30. – **German:** Sun. 19.40. – **Portuguese:** Wed. 09.20. – **Spanish:** Wed. 03.20.
ANN.: Home Service: The call-sign and the station name are announced at the commencement and end of each transmission. At intervals between programmes, an announcement, "NHK" is made. – On the 1st network, the call-sign and the station name are announced just before timecast – On the 2nd network, the call-sign and the station name are announced every hour at half past. – **Foreign Service: English:** "This is Radio Japan, the overseas broadcasting service of NHK. We are broadcasting to... ("Target area") – **French:** "Ici Radio Japon... (target area)" – **German:** "Hier ist Tokyo, der japanische Rundfunk...(target area)" – **Italian:** "Buon giorno, sign. radioascoltatori Italiani. Qui Radio Giappone – Reparto Servizio Internazionale di NHK...". – **Spanish:** "Aqui Radio Japon...". – **Portuguese:** "Estão ouvindo a Radio Japão..." – **Indonesian:** "Itulah Radio Djepang, siaran international dari NHK di Tokio...".
INT.-SIG.: Home Service: Both on the 1st and the 2nd networks, a musical sign is beamed on a celeste before commencing broadcasting. No interval signal is used since both the 1st and the 2nd networks are continuously on the air. – **Foreign Service:** Opening music "Sekura":



Interval signal music "Kazoe Uta":



PUB.: NHK Shimbun or NHK Radio & TV News (weekly) – NHK Hoso Bunka or NHK Broadcast Culture (monthly) – Broadcast Engineering (monthly) – NHK Technical Journal (quaterly) – NHK Year Book (annual) – Prgr. schedules are published annually in April, when the schedules are revised. The language used is Japanese – The prgr.sched. Overseas Sce. is published every time the prgr.s are changed. The Foreign Sce. sched. is distributed upon request. No return postage required. – V. by QSL-card.

THE NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN

ADDR.: 8-7 Ginza-Nishi, Chuo-ku, Tokyo. – **Cable:** "Kyobashi Minporen (NARTB JAP)". – **L.P.:** Pres.: T. Adachi. Vice-Pres.: G. Kojima, N. Shikanai. Sec. Gen.: S. Sakai.
STATIONS: Medium Wave. Call. JO---.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
1)	GR	560	10	27)	PM	920	0.1	32)	GR	1120	3
2)	DF	580	1	9)	TR	940	3	10)	AF	1120	3
3)	JF	740	1	29)	KR	950	50	40)	QR	1130	50
4)	LR	740	9	29a)	GF	1000	1	13)	BR	1140	10
5)	MR	760	3	10)	WO	1000	1	7)	HR	1190	10
6)	CF	760	5	30)	PF	1000	3	41)	OR	1210	20
7)	QN	800	0.1	31)	NR	1010	2	12)	DR	1220	1
8)	IO	800	0.1	32)	GO	1060	0.1	47)	UR	1220	3
9)	TO	800	0.1	32)	GE	1060	0.1	42)	ER	1240	10
9)	WE	800	0.1	26)	EL	1060	0.1	8)	IR	1250	10
10)	WW	800	0.1	10)	WR	1060	0.1	36)	FR	1270	10
11)	SE	800	0.1	2)	DL	1060	0.1	7)	QL	1280	1
12)	DE	800	0.1	2)	DM	1060	0.1	28)	JR	1280	3
13)	BO	800	0.1	11)	SW	1060	0.1	14)	YR	1280	3
14)	YO	800	0.1	3)	JL	1060	0.1	43)	LF	1310	50
15)	AL	800	0.1	34)	AO	1060	0.1	44)	UF	1380	20
16)	HM	800	0.1	5)	MO	1060	0.1	19)	VR	1400	3
17)	IL	800	0.1	35)	VO	1060	0.1	7)	TL	1400	1
18)	7C	800	0.04	14)	YE	1060	0.1	31)	7B	1400	0.02
19)	OL	800	0.1	23)	HL	1060	0.1	17)	IF	1410	10
20)	VL	800	0.1	30)	PL	1060	0.1	45)	KF	1450	3
7)	HE	860	1	28)	JO	1060	0.1	7)	HW	1460	1
21)	PR	860	3	25)	ZO	1060	0.1	19)	OF	1460	1
22)	XR	860	1	36)	FO	1060	0.1	38)	NF	1480	1
11)	SO	860	1	37)	BL	1060	0.1	45)	RF	1480	10
7)	HO	900	1	34)	NL	1060	0.1	7)	QF	1500	1
23)	HF	900	3	34)	EO	1060	0.1	45a)	VF	1500	1
24)	EF	900	3	34)	AR	1030	10	7)	QM	1540	3
25)	ZR	920	3	11)	SR	1100	1	12)	DO	1560	0.1
26)	MF	920	1	37	BF	1100	5	34)	AE	1560	0.1

RADIO JAPAN CALLS YOU TO JAPAN

RADIO JAPAN, NHK's INTERNATIONAL BROADCASTING SERVICE

TARGET AREA:

SOUTH ASIA
MIDDLE EAST
NORTH AMERICA
LATIN AMERICA
NORTH AMERICA & HAWAII
EUROPE
AUSTRALIA & NEW ZEALAND
ASIAN CONTINENT
PHILIPPINE & INDONESIA
SOUTHEAST ASIA
GENERAL ASIA

NATIONAL NETWORKS

Radio stations 115
Television stations 40

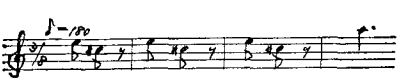
NHK (Japan Broadcasting Corporation) No. 2 2-chome Uchisaiwai-cho Chiyoda-ku, Tokyo, Japan.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
21)	PO	1560	0.1	15)	AM	1560	0.1	38)	NM	1560	0.1
35)	VE	1560	0.1	46)	KL	1560	0.1	6)	CL	1560	0.1
22)	XO	1560	0.1	47)	UO	1560	0.1	20)	VM	1560	0.1
13)	BE	1560	0.1	2)	GL	1560	0.1	36)	FE	1560	0.04

Short Waves:

	Call	kc/s	m	kW		Call	kc/s	m	kW
48)	Z	3925	76.43	10	48)	Z2	6055	49.55	10
					48)	Z3	9595	31.27	10

1) **Kobe Broadc. Co.**, 3–7 Isonare-cho, Kobe. – **L.P.**: Press.: K. Tanaka.
2) **Iwate Broadc. Co.**, Morioka. – **L.P.**: Pres.: S. Iwakame.
3) **R. Yamanashi Broadc. Co.**, 288 Hyakukoku-machi, Kofu City. – **D.PRGR.**: 20.30–15.00.
4) **Kita-Nihon Broadc. Co.**, Toyama. – **L.P.**: Pres.: S. Yokoyama.
5) **Hokuriku Broadc. Co.**, Kanazawa. – **L.P.**: Pres.: H. Saga.
6) **R. Minami-Nihon**, 2 yasui-cho, Kagoshima. – **L.P.**: Pres.: S. Hatanaka. Mgr.: K. Ijuin. Dir. Tec.: H. Yamamoto. – **D.PRGR.**: 20.30–14.30. – **V.** by QSL-card.
7) **Hokkaido Broadc. Co.**, Sapporo, Hokkaido. – **L.P.**: Mgr. & Dir. Prgr.: K. Muroya. – **D.PRGR.**: 20.00–15.30. – **N.**: W.: 12.10. – **Wrp.**: 21.55, 02.55, 09.50. – **Mbg.**: Sun. 10.40. – **V.** by QSL-card. R.p.
8) **Tohoku Broadc. Co.**, Sendai. – **L.P.**: Pres.: K. Sasaki.
9) **R. Tohoku Broadc. Co.**, 14, Akita. – **L.P.**: Pres.: Y. Takehana.
10) **R. Fukushima Broadc. Co.**, Fukushima. – **L.P.**: T. Tobishima.
11) **Shin-Etsu Broadc. Co.** (SBC), Nagano. – **L.P.**: Pres.: J. Katsuta.
12) **R. Niigata**, Niigata. – **L.P.**: Pres.: K. Sakaguchi.
13) **Kyoto Broadc. Co.**, Nakakyo-ku, Kyoto.
14) **Sanyo Broadc. Co.**, Okayama. – **L.P.**: Pres.: H. Taniguchi.
15) **Nankai Broadc. Co.**, Matsuyama. – **L.P.**: Pres.: Y. Yamanaka.
17) **Kyushu Asahi Broadc. Co.**, Fukuoka. – **L.P.**: Pres.: I. Dan.
19) **R. Tokai Broadc. Co.**, Kami-Kano, Gifu. – **L.P.**: Pres.: K. Muto.
21) **Fukui Broadc. Co.**, Fukui. – **L.P.**: Pres.: S. Kato.
22) **Kinki-Tokai Broadc. Co.**, Marunouchi, Tsu. – **L.P.**: Pres.: M. Abo.
23) **R. San-In Broadc. Co.**, Yonago. – **L.P.**: Pres.: O. Oda.
24) **Yamagata Broadc. Co.**, Yamagata. – **L.P.**: Pres.: Y. Hattori.
25) **R. Kochi Broadc. Co.**, Koshi. – **L.P.**: Pres.: J. Hara.
28) **Shikoku Broadc. Co.**, Tokushima. – **L.P.**: Pres.: S. Maekawa.
29) **R. Tokyo**, Main Office: Hitotsugicho, Minatoku, Tokyo. Studio: Yuraku-cho, Chiyodaku, Tokyo. – **L.P.**: Pres.: T. Adachi. Mgr.: K. Shikakura. Dir. Tec.: K. Endo. – **D.PRGR.**: 20.00–16.15. – **Nat. Music**: Wed. 13.15. – **N. Comm. & Wrp.**: Every h. – **English**: 03.15–03.45. – **ANN.**: "JOKR Kochirawa Radio Tokyo desu". E.: "JOKR This is Radio Tokyo". – **V.** by QSL-card. – Prgr.sched. free on request.
29a) **R. Oita Broadc. Co.**, 1–491 Takamatsu, Oita.
30) **R. Yamaguchi Broadc. Co.**, Tokuyama. – **L.P.**: Pres.: K. Nomura.
31) **Asahi Broadc. Co.**, New Asahi Bldg., Nakanoshima, Osaka Tokyo Office: Asahi Bldg., Nishi-Ginza, Tokyo. – **L.P.**: Pres.: Dr. M. Iijima. Ex. Dir. & Sales Dir.: T. Tateishi. Man. Dir.: T. Hirai. Dir. Prgr.: R. Tanaka. Dir. Tec.: K. Kusama. Mgr. Tokyo Office: M. Yoshida. – **D.PRGR.**: 20.30–15.30. – **N.**: W.: 20.50, 21.50, 22.50, 00.50, 03.50, 04.50, 05.50, 06.50, 07.50, 08.50, 09.50, 11.50, 13.50. Sun.: 20.50, 21.50, 22.50, 00.50, 02.50, 08.50, 09.50, 13.50.
ANN.: "ABC Asahi Hoso, JONR". – **V.** by QSL-card. – **PUB.**: "Radio and TV, Asahi", monthly.
32) **R. Aomori Broadc. Co.**, Aomori. – **L.P.**: Pres.: S. Takeuchi.
34) **Chubu Nippon Broadc. Co.**, Shinsakae-machi, Nagoya. – **L.P.**: Pres.: K. Sasaki. **D.PRGR.**: 03.00, 08.50, 12.45, – **V.** by QSL-card. – **PUB.**: Prgr. sched. free on request.
35) **R. Shizuoka**, Shizuoka. – **L.P.**: Pres.: Y. Komuratani.
36) **RKB Mainichi Broadc. Co.**, Fukuoka. – **L.P.**: Dir. Gen.: M. Yamawaki, Mgr.: H. Kaneko. Dir. Tec.: K. Kimoto. Dir. For. Rel.: S. Yamada. – **D.PRGR.**: 20.45–15.45. – **V.** by QSL-card. – **F.PL.**: OJFR 100 kW, 2 FM st.'s. – **PUB.**: Prgr.sched. free on request.
37) **R. Kumamoto Broadc. Co.**, Kumamoto. – **L.P.**: Pres.: R. Fukami.
38) **R. Miyazaki Broadc. Co.**, 858 Shimo-Kitakata-machi, Miyazaki.
39) **R. Chugoku Broadc. Co.**, 68 Kamiyanagi-cho, Hiroshima.
40) **Nippon Cultural Broadcasting Co.**, Shinjuku, Tokyo. – **L.P.**: Dir. Gen.: K. Shibuaawa. Mgr.: S. Mizuno. Dir. Tec.: M. Adachi. – **D.PRGR.**: 20.00–16.30. **N.**, **Wrp.**: 20.55, 22.50, 23.55, 00.55, 01.55, 04.55, 05.55, 07.55, 09.30, 15.00. **English-Japanese lessons**: D. 14.00–14.30. – **ANN.**: "Bunkahoso JOQR". – **V.** by QSL-card. – **F.PL.**: Increase 150 kW, FM st. – **PUB.**: Prgr.sched. by request.
41) **Mainichi Osaka Kaikan**, Funadaiku-cho, Kita-ku, Osaka. – **L.P.**: Pres.: M. Sugi. Exec. Dir.: S. Takahashi. Dir. Tec.: Y. Takashima. – **D.PRGR.**: 20.30–15.30. **N.**, **Wrp.**: Every h. on the h. exc. 10.00, 11.00–22.00. – **V.** by QSL-card. – **PUB.**: "MBS Club", "CM Kenkyu". Prgr.-sched. free. – **F.PL.**: Power 100 kW. 2 FM st.'s (Tokyo, Osaka), 3 rel.st.'s. – **V.** by QSL-card.
43) **Nippon Broadc. System**, 7 1-chome Yurakucho, Chiyodaku, Tokyo. – **L.P.**: Pres.: K. Uemura. Man. Dir.: N. Shikanai. Dir. Gen. Affairs: R. Matumoto. Dir. Prgr.: M. Senda. Dir. Tec.: S. Hase. – **D.PRGR.**: 20.00–16.45. – **N.**, **Wrp.**: 20.30, 21.30, 22.30, 00.30, 02.30, 03.30, 06.30, 14.00, 15.30. **Comm.**: 14.30. **Wrp.**: After news. **Nat. Music**: Sat., Sun. 14.00. Wed. 06.00. Thurs., Fri. 13.15. – **ANN.**: "JOLF, Nippon Hoso desu" ("This is Nippon Hoso"). – **INT.-SIG.**:(Time Signal):



V. by QSL-card. R.p. – **PUB.**: Prgr.sched. free on request.
44) **Osaka Broadc. Co.**, Sankei Bldg. 27 Umeda-cho, Kiti-ku, Osaka.
45) **R. Kanto**, 19 Oimatsu-cho, Nishi-ku, Yokohama.
45a) **Wakayama Broadc. Corp.**, Wakayama. – **L.P.**: K. Maeda.
46) **Nishi-Nippon Broadc. Co.**, Takamatsu. – **L.P.**: Pres.: J. Hirai.
47) **Nagasaki Broadc. Co.**, Nagasaki. – **L.P.**: E. Nakabe.
48) **Nihon Short-Wave Broadc. Co.**, 3, 7-chome, Tamachi, Akasaka, Minato-ku, Tokyo. – **L.P.**: Dir. Gen.: S. Odajima. Mgr.: Z. Takano. Dir. Prgr.: S. Iizawa. Dir. Adm.: S. Ando. Dir. Tec.: T. Kawahara. Dir. For. Rel.: Y. Kobayashi.
D.PRGR.: 20.00–15.25. – **N.**: 03.30, 08.30, 14.30, 23.30. – **Wrp.**: 07.20, 14.40, 20.45. – **DX-Prgr.** in Japanese: Sat. 22.15–22.30. Dx No. shiori: Tues., Fri. 07.18–07.20. – **English Lesson**: D. 21.00–22.00.
ANN.: "Nihon Tampa Hoso desu". – **INT.-SIG.**: Slow tempo chime with Japanese musical instrument "Koto" at sign on and sign off. – **V.** by QSL-card, but inland listeners reports should cover at least 1 h. prgr. reception data in total. – **F.PL.**: Increase 50 kW. – **PUB.**: "Tampa" Techo" monthly. Prgr. sched. free on request.

VOICE OF UNITED NATIONS COMMAND (V.U.N.C.)

ADDR.: U.S. Army Broadcast and Visual Activity, Pacific, APO 331, San Francisco, California, USA.

FOREIGN SCE. in **Cantonese, Mandarin, Korean.**
VUNC Korean Network (Seoul): 08.30–03.00.
760 kc 395 m 5 kW – 2405 kc 124.7 m 0.3 kW – 3765 kc 79.68 m 0.3 kW
N.: In **Korean**: 11.30, 12.00, 13.00, 13.30, 14.00, 18.30, 19.00, 22.00, 22.30, 23.30, 24.00. In **Mandarin**: 17.00, 17.30.

VUNC Japan Network:

Tokyo	JOAB	690 kc/s	434.0 m	100 kW	15.02–16.30[1])
Osaka	JOBB	830 –	362.0 –	100 –	15.02–16.30[2])
Yamata	–	6015 –	49.88 –	20 –	15.00–21.00
Yamata	–	9560 –	31.38 –	10 –	11.00–18.00

[1]) Mandarin. N.: 13.00, 13.30, 15.02, 15.32, 17.00, 17.30.
[2]) Korean. N.: 11.00, 12.00, 15.02, 15.32, 18.30, 19.00.

KBS Network Two:
Seoul 970 kc/s 309 m 100 kW – 6965 kc/s 43.07 m 1 kW: 13.30–15.00.
Seoul 9640 kc/s 31.12 m 100 kW: 13.30–14.00.
ANN.: E.: "Voice of the U.N. Command". – **V.** by QSL-card.

FAR EAST NETWORK (AFRTS)

The network serves the members of the United States Forces serving in the Far East.
ADDR.: Headquarters, Far East Network, APO 99, San Francisco.
Authority: The stations of the FEN in Japan broadcast by authority of the Commander, U.S. Forces, Japan in cooperation with the Japanese Radio, Regulatory Board. Stations are linked by land line, and operate 24 h. d.

朝日放送
ASA HI HO SO
LISTEN TO
ABC
Japan's Voice of Time
ASAHI BROADCASTING COMPANY
Head Office : Nakanoshima, Kitaku, Osaka.
Branch Office : Yurakucho, Chiyodaku, Tokyo.
JONR ——1010KC —10KW
JONR-TV——CHANNEL 6—10KW

Medium Waves: FEN–––.

	kc/s	kW		kc/s	kW			
						Misawa	1580	0.25
Tokyo	810	10	Chitose	1570	0.25	Iwakuni	1580	1
Iwo Jima	1500	0.1	Ashiya	1570	0.25	Nagoya	1590	10
Itazuke	1550	2.5	Sasebo	1570	0.25	Wakkanai	1590	0.1

Short Waves: (relay of Tokyo): 20.00–18.05
6160 kc/s 48.70 m 10/1 kW[1]) – 11750 kc/s 25.53 m 10 kW
15257 kc/s 19.66 m 1/10 kW[2])
[1]) Night 10, Day 1 kW; [2]) Night 1 kW, Day 10 kW.
ANN.: Local station identification is "Serving American Forces Overseas. This is the Far East Network – – Far East Network, Tokyo (Nagoya, Itazuke etc.)". Shortwave tr.'s include their frequency.
V. by QSL card

★ KOREA (Peoples Democratic Republic) ★

L.T.: GMT+8½ h. (Su. 9½ h.). – **Pr. L.:** Korean. – **Po.:** 15.000.000. – **Rcvrs.:** 589.036. – **E.C.:** 100/200 V, A.C., 50 c/s.
ADDR.: Korean Central Broadcasting Committee, Pyongyang.
STATIONS: Medium Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
705	425	785	382	820	365	1080	278

Short Waves:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2850	105.3	5700	52.63	6195	48.43	6250	48.00

HOME SCE. in Korean (including relays from R. Moscow): 21.00–24.00 on 785/2850/5700/6195 kc/s, 03.00–05.00 on 785/1080/2850/6195/6250 kc/s, 08.00–12.30 (or 13.00) & 14.00–15.00 on 785/2850/6195 kc/s, 16.00–18.00 on 6195 kc/s.
FOREIGN SCE. in Korean, Japanese, Chinese:
To S. Korea (Korean): 21.00–22.00, 23.00–24.00, 08.00–13.00, 14.00–15.00 on 705/820/1080/6250 kc/s, 13.00–14.00 on 785/1080/2850/6195 kc/s, 15.00–16.00 on 785/1080/2850/6195/6250 kc/s.
To Japan (Japanese): 22.00–22.30, 13.30–14.00 on 820/6250 kc/s.
Korean: 13.00–13.30 on 820/6250 kc/s.
To China (Chinese): 22.30–23.00 on 820/6250 kc/s.

★ KOREA (Republic of) ★

L.T.: GMT+8½ h. (Su.+9½ h., 4/5–20/9). – **Pr.L.:** Korean. – **Po.:** 22.000.000. – **Rcvrs.:** 350.000–**E.C.:** 110/220 V., A.C., 60 c/s.

THE KOREAN BROADCASTING SYSTEM (Go.)

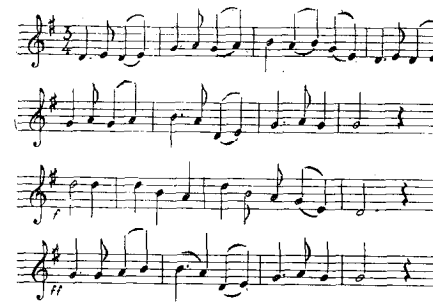
ADDR.: Bureau of Broadc. Management, Office of Public Information, Seoul. – **L.P.:** Dir. Gen.: K. I. Lee. Mgr.: O. Y. Lee. Dir. Prgr.: J. P. Noh. Dir. Adm.: D. B. Kim. Dir. Tec.: J. H. Lee.
STATIONS:
Short Waves: [1]) Seoul Yonhi. Network I.
[2]) Seoul Suwon. Network II HLKA. Others: Foreign link.

Call	kc/s	m	kW	Call	kc/s	m	kW
HLK50	2510	119.5	10	HLK5	9640	31.12	50
HLK51	3910	76.73	2	HLK6	11925	25.17	50
HLK2	5980	50.17	10	HLK7	15255	19.66	50
–	6965	43.07	2	HLK8	15410	19.47	50
HLK4	7180	41.78	1	HLK29	17895	16.76	50
HLK52	7935	37.81	10	HLK9	17745	16.91	50

Medium Waves: [1]) Short Wave. [2]) Mobile unit. [3]) 1st Prgr. [4]) 2nd Prgr.

Name	Call	kc/s	kW	Name	Call	kc/s	kW
Jonjoo	HLKF[1])[3])	570	5	Chungjoo	HLKQ	920	1
Mokpo	HLKN	650	0.5	Seoul	HLKA[1])[4])	970	100
Kangneung	HLKR	660	5	Sokcho	[2])	1000	0.3
Seoul	HLKA[1])[3])	710	100	Namwon	HLKL	1030	0.5
Taegu	HLKG	740	10	Jejoo	HLKS	1080	0.5
Masan	HLKO	760	0.3	Chunchon	HLKM	1360	1
Kwangju	HLKH	780	1	Yeosoo	[2])	1360	0.25
Pusan	HLKB	820	10	Pohang	[2])	1420	0.25
Taejon	HLKI	880	10	Jinhae	HLKD	1436	1

FM: Suwon: 44.3 mc/s 0.25 kW, 44.5 mc/s 0.25 kW. – Jeongdong: 48.3 mc/s 0.06 kW, 46.1 mc/s 0.06 kW, 49.6 mc/s 0.25 kW. – Namsan: 45.3 mc/s 0.06 kW, 46.3 mc/s 0.25 kW, 102.6 mc/s 0.06 kW, 106.2 mc/s.
HOME SERVICE:
1st Prgr. (Korean): 20.30–16.30. – **N.:** 21.30, 23.30, 01.30, 03.30, 04.30, 06.30, 08.30, 10.30, 12.30, 13.30. – **Wrp.:** 00.00, 13.45.
2nd Prgr. (Korean, Chinese): 20.30–16.30. **Chinese:** 15.00–15.30, 16.15–16.30. – **Red China Armed Forces Hour:** 16.15–16.30.
FOREIGN SERVICE: [1]) To North America. [2]) To Hawaii. [3]) General Overseas Service. [4]) To Japan. [5]) To South East Asia.
[1]) 05.30–06.30 on 15410, 17745 kc/s **English** 05.30, **Korean** 06.00
[2]) 07.30–08.30 on 15255 kc/s **English** 07.30, **Korean** 08.00
[3]) 10.30–11.00 on 970, 6965, 9640 kc/s **English**
[4]) 13.00–13.30 on 970, 6965, 9640 kc/s **Japanese**
[5]) 14.00–15.00 on 9640, 15410 kc/s **English** 14.00, **French** 14.30
N., Commentary after the Signal. **Music** of every Overseas Prgr's.
So.Ea.As. prgr.: Sun.: Glimpse of Korea. Mo.: Korean Folk prgr. Sat.: Korean Music.
USA/Hawaii prgr.: Sun., Sat.: Korean Classical Music. Fri.: Foreigners in Korea.
ANN.: Home Sce.: Every 30 min. Korean: "Seoul Chungang Bangsong-guk Imnida HLKA" (Seoul Key Station HLKA). After each short prgr.: KBS (kei bi es). – **Foreign Sce.: E.:** "This is the Voice of Free Korea, Korean Broadcasting System".
INT.-SIG.: Foreign Sce.: Korean folk music



V. by QSL-card. – **F.PL.:** 500 kW m.w. st., Pusan 50 kW. – **PUB.:** Prgr. schedule free upon request. Radio and TV (monthly). Broadcasting (weekly).

AMERICAN FORCES KOREAN NETWORK (Go.)

ADDR.: Headquarters, United States Element, American Forces Korean Network, APO 301, S. Francisco, Calif., U.S.A.
STATIONS: Medium Waves: see U.S.A.
Short Wave:
Seoul: 6875 kc/s 43.64 m 0.25 kW (rel. 560 kc/s): 21.30–17.30.
ANN.: "This is the AFKN, American Forces Korean Network". – **V.** by letter. R.p.

RADIO STATION HLKX (Religious. Educational. Comm. prgr. on limited basis).

Operated by the Evangelical Alliance Mission, 2845 W McLean Av., Chicago. **ADDR.:** Box 16, Inchon. – **Cable:** Team Seoul. **L.P.:** Dir.: T. Watson jr.
HOME SERVICE: 1065 kc/s 281 m 20 kW.
English: W. 06.30–09.30. Sat. 01.30–13.30. Sun. 00.30–09.30. – **Korean:** D.: 22.30–00.30, 09.30–11.30. – **Russian:** D.: 11.30–13.30, 15.30–17.30. – **Chinese:** D.: 20.30–22.30, 13.30–15.30. – **ANN.:** "TEAM Radio HLKX, Inchon, Korea". – **V.** by QSL- ard.

CHRISTIAN BROADCASTING STATION (Non-Comm., Independent.)

ADDR.: 91 Chongno 2 Ka, Seoul. – **L.P.:** Dir.: E. O. De Camp. Mgr.: C. Bok Kim. Dir. Prgr.: J. J. Whang. Dir. Tec.: M. K. Chun.
HOME SCE.: HLKY 840 kc/s 357 m 10 kW. FM 104 mc/s 0.25 kW. HLKT 1000 kc/s 300 m 0.25 kW (Korean only).
Korean: W.: 21.30–24.00, 08.30–14.30. Sun.: 21.30–23.30, 06.30–15.30.
English: Sun.: 23.30–01.30, 05.30–06.30.
N. (Korean): 23.30, 09.30, 10.30, 11.30, 12.30, 13.30.
F.PL.: Rel. st. in Pusan Dec. 59; in Kwangju and other cities.

★ LAOS ★

L.T.: GMT+7 h. – **Pr. L.:** Laotian and French. – **Po.:** 3.000.000. – **Rcvrs.:** 15.000. – **E. C.:** 115 V, AC, 50 c/s.

RADIODIF. NATIONALE LAO (Go.)

ADDR.: Radiodiffusion Nationale Lao, à Vientiane. – **Cable:** "Radio Lao". – **L.P.:** Dir. Gen.: S. Phabmixay. Dir. Prgr.: Souvannavong. Adm.: Vissapra. Dir. Tec.: Viengsavanh.
Home Sce.: 00.00–02.30, 05.15–07.15, 12.00–17.00.
1340 kc/s 223.88 m 5 kW – 6130 kc/s 48.94 m 1 kW – 7145 kc/s 41.99 m 1 kW –
In Laotian: 00.00–02.30, 12.00–16,00. – **Nat. Music:** 00.00–00.45, 12.00–12.45, 14.30–15.00, 15.30–16.00. **In French:** 06.00–07.00, 16.00–17.00.
ANN.: F.: "Ici Vientiane, Radiodiffusion Nationale Lao" – **INT.-SIG.:** Music on Khene, instrument of bambus. – **V.** by QSL-card.

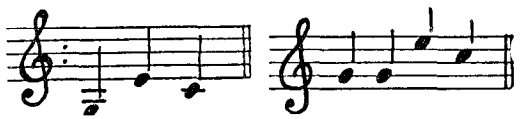
★ MACAU (Portuguese China) ★

L.T.: GMT+8 h. – **Pr.L.:** Portuguese, Chinese, English. – **Po.** 250.000. **Rcvrs.:** 10.000.

EMISSORA VILA VERDE (Pr.-Comm.)

ADDR.: Radio Vila Verde, Macau. Cable: Vila.
L.P.: Dir. P. J. Lobo. Mgr.: P. H. Lobo. Dir. Prgr.: A. Noronha. Dir. Tec.: J. J. Alvares.
HOME SERVICE:
CR9XL 980 kc/s 306 m 3 kW: 23.00–16.00 **(Chinese)**
CR9XM 1250 kc/s 240 m 1 kW: 12.00–16.00 **(Portuguese)**

ANN.: P.: "Aqui Emissora Vila Verde Macau, estaçao CR9XL". – V. by letter or QSL-card.
INT.-SIG.: CR9XM CR9XL



★ MALAYA (Federation) ★

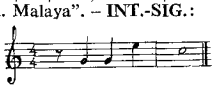
L.T.: GMT+7½ h. – Pr. L.: Malay, English, Chinese, Tamil. – Po.: 6.250.000. – Rcvrs.: 198.000 – E.C.: 230/400 V., A.C., 50 c/s.
RADIO MALAYA (Go.)
ADDR.: Dept. of Broadcasting, 5th Floor, Federal House, Kuala Lumpur. Cable: Broadcasts. – L.P.: Dir.: A. T. Read. Dep. Dir. Prgr.: D. J. Lyttle. Dep. Dir. Eng.: Kirpal Singh.
STATIONS: Medium Waves:

	kc/s	kW	Network		kc/s	kW	Network
Kuala Lumpur	590	10	Green	Kuala Lumpur	880	10	Blue
Penang	660	2	Orange	Ipoh	910	2	Purple
Ipoh	740	2	Orange	K. Trengganu	960	0.3	Red
Penang	820	2	Purple	Malacca	1010	0.2	Purple
Kota Bharu	840	0.3	Red	Kuala Lumpur	1070	10	Red
Kuantan	860	0.3	Red	Malacca	1280	0.2	Orange

Short Waves: *)Kuala Lumpur (Kajang). **) Singapore (Jurong).

kc/s	m	kW	Network	kc/s	m	kW	Network
6025*	49.79	5	Red	7200**	41.67	7.5	Blue
6135**	48.90	7.5	Red	7280**	41.21	7.5	Green

HOME SCE. in Malay, English, Chinese, Tamil: 23.45–15.30. Malay: 1070/6025, 840/860/960 kc/s. English: 880/7200 kc/s. Chinese: 7280 kc/s. Chinese/Tamil: 590 kc/s. English/Chinese: 820/910/1010 kc/s. Malay/Tamil: 660/740/1280, 6135 kc/s.
ANN.: E.: "This is R. Malaya". – INT.-SIG.:



★ MONGOLIA (Outer) ★

L.T.: GMT+8 h. – Pr. L.: Mongolian. – Po.: 910.000.
ULAN BATOR RADIO (Go.)
Addr.: MNR Ulan-Bator Radio, Ulan Bator. –
STATIONS: Ulan-Bator 300 kc/s 1000 m 10 kW – 6345 kc/s 47.28 m W5 k d. – 10375 kc/s 28.90 m 5 kW d.
D.PRGR.: 23.00–02.00, 08.00–15.00 on 300, 6345, 10375 kc/s.
FOREIGN SCE.: Mongolian: 08.20–08.25 – Russian: Mo., Wed. 12.40–13.00, Fri. 12.10–12.30 – Chinese: Tues. 12.35–12.55, Thurs. 12.40–13.00, Sun. 14.30–14.50. Kazakh: Tues. 11.36–11.55, Sat, 12.15–12.45.
ANN.: "Ankhararai Ulanbatras jarsj baina" (Attention. This is Ulan-Bator Calling) – INT.-SIG.:

★ NEPAL ★

L.T.: GMT+5½ h. – Pr. L.: Nepali, Newari, Hindi, English. – Po.. 8.700.000. – Rcvrs.: 10.000. – E.C.: 120/220 & 380/440 V, A.C., 60 c/s:
RADIO NEPAL (Go.) – ADDR.: Kathmandu (Via India).
HOME SERVICE:
1500 kc/s 200.0 m 20 kW 12.20–14.10.
6004 – 49.96 – 5 – Wed.: 03.20–04.50, 07.50–09.20, 11.30–12.50.
N. in Newari: 03.35. – N. in Nepali: 03.40, 08.20, 12.22. – N. in Hindi: 04.40, 09.10. – N. in English: 04.35, 12.45.
ANN.: Nepali: "Yo Radio Nepal Ho." – V. by letter. R.p.

★ PAKISTAN ★

L.T.: We. Pakistan: GMT+5 h. Ea. Pakistan: GMT+6 h.
Pr. L.: Urdu, Bengali. – Po.: 83.603.000. – Rcvrs.: 110.000. – E.C.: 220 V, A.C., 50 c/s.
RADIO PAKISTAN (Go.). R.P.=Radio Pakistan.
ADDR.: 71, Garden Road, Karachi 3. – Cable: Pakbrocast, Karachi.
L.P.: Dir. Gen.: R. Ahmed. Chief Eng.: B.Ahmed. Dep. Dir. Gen.: A. Qutb. O.S.D., Z. Iqbal. Dep. Chief. Eng.: S. A. Aziz. Dir. Prog. Planning: A. Butt. Dir. Liaison: Z. Husain. Adm. Officer: K. A. Mukhtar.
Executive Units: Dir. N.: S. I. Haq. Dir. External Sce.'s: H. Nasim. O.S.D., (External) S. A. Hafeez. Reg. Dir.: R. P., Karachi: M. Iqbal, Reg. Dir. R. P., Lahore: A. B. Ahmed. Reg. Dir. R. P., Rawalpindi: A. Nasri. Reg. Dir. R. P., Peshawar: Q. A. Saeed. Reg. Dir. R. P., Hyderabad: S. Haider. Reg. Dir. R. P., Dacca: A. F. Kalimullah. Reg. Dir. R. P., Quetta: K. G. Ali. Dir. Monitoring: M. M. Sayeed. Resdt. Eng. H. P. T.: S. Shah. Maintenance Eng.: M. A. Rehman. Installation Eng.: M. G. Baig. Research Eng.: Irfanullah. Editor, Radio Pub.: G. Abbas.
STATIONS:

Medium Waves:	kc/s	m	kW		kc/s	m	kW
Peshawar	790	379.7	10	Rawalpindi I	1150	260.0	10
Karachi I	830	361.4	10	Dacca I	1170	256.4	5
Chittagong	870	344.8	1	Rajshahi	1340	223.9	1
Hyderabad	1010	297	1	Quetta	1450	206.9	1
Lahore I	1090	275.2	5				

Short Waves: Karachi II/III=50 kW; Karachi IV/V=10 kW.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
2420	124.0	7010	42.80	9740	30.80	15205	19.73
3335	89.96	7096.6	42.27	9755	30.76	15255	19.67
3395	88.37	7110	42.19	11570	25.93	15275	19.64
3915	76.63	7200	41.67	11580	25.91	15285	19.63
3955	75.85	7225	41.52	11650	25.75	15335	19.56
4807	62.41	7263	41.31	11674	25.70	16520	19.21
4895	61.29	7280	41.21	11725	25.58	17710	16.94
4910	61.10	7290	41.15	11770	25.49	17715	16.93
4935	60.79	9484	31.63	11810	25.40	17745	16.91
5980	50.17	9495	31.60	11845	25.33	17750	16.90
5990	50.08	9518	31.52	11885	25.24	17770	16.88
6035	49.71	9545	31.43	11914	25.18	17820	16.84
6070	49.42	9614	31.20	15135	19.82	17835	16.82
6075	49.38	9630	31.15	15145	19.81	21590	13.90
6220	48.23	9645	31.10	15155	19.80	21630	13.87
6235	48.12	9690	30.96	15165	19.78	21690	13.83
		9705	30.91				

Dacca: II 7.5 kW: Dacca: III 10 kW:

2350	127.7	5980	50.17	7225	41.52	11725	25.58
3325	90.23	6112	49.06	7623	39.29	11885	25.24
3955	75.85	6120	49.02	7655	39.19	11890	25.23
3965	75.66	7085	42.34	7667.5	39.13	15270	19.65
4807	62.41	7140	42.02	9614	31.20	15305	19.60
5970	50.25	7150	41.96	9645	31.10	15335	19.56
						17890	16.77
						21630	13.87
						21690	13.82

Lahore: II 1 kW

2400	125.0	4807	62.41	7096	42.27	9645	31.10
3335	89.96	6030	49.75	7225	41.52	11800	25.42
3395	88.37	6075	49.38	7284	41.19	11840	25.34
3915	76.63	6138	48.88				

Rawalpindi: 4895 kc/s 61.28 m – 7110 kc/s 42.19 m – 9755 kc/s 30.74 m.
All frequencies are subject to seasonal changes.

HOME SERVICE

MEDIUM WAVE PROGRAM:
Karachi (Urdu, English, Bengali, Kashmiri, Pushto, Arabic): 01.30–03.30, 06.30–09.00, 11.30 (Fri., Sat., Sun. 12.00)–17.30. Lahore: 01.30–03.30, 06.30–08.30, 12.00–17.30.
Peshawar: 01.30–03.30, 06.30–08.30, 12.00–17.30.
Rawalpindi: 01.30–03.30, 07.00–08.30, 11.30–17.00.
Dacca: 01.00–03.00, 06.00–07.30, 11.00–16.30.
Hyderabad: 12.00–17.00.
Quetta: 12.00–17.00.
Abbreviations: (K=Karachi, L=Lahore, P=Peshawar, R=Rawalpindi, D=Dacca, H=Hyderabad, Q=Quetta).
Nat. Music: is broadcasts d. from each st. of R. Pakistan on the chunks other than those reserved for fixed point items, spoken word items and news.
News in English: (incl. Wrp.)

02.00–02.15	K, L, P, R, D	06.30–06.40	K, D
08.00–08.10	K, L, P, R	13.20–13.25	Local K
12.00–12.10	K, L, R, D	12.55–13.00	Local L
14.45–15.00	K, H, L, Q, R, P, D	13.50–13.55	P

Wrp.: English: 12.29 (R), 01.20 (D), 06.00 (D), 12.10 (D).
News in Urdu:

02.15–02.30	K, L, P, R, D	13.15–13.20	Local K
08.10–08.20	L, K, P, R	12.50–12.55	Local L
12.10–12.20	K, H, L, Q, P, R	13.45–13.50	Local P
15.00–15.15	K, H, L, Q, P, R, D	12.20–12.25	Local R
		12.30–12.35	Local Q
		12.55–13.00	Local D

Time-Sig. on m.w. and s.w. from Karachi: 02.00, 08.00, 12.00.
SHORT WAVE PROGRAM:
Karachi to W. Pakistan: 01.30–03.30, 06.30–09.00, 12.00–15.15.

	kc/s		kc/s
01.45: N. in Bengali		07.00: Karachi prgr.	
02.00: N. in English		07.50: N. i Pushto	9645
02.15: N. in Urdu	6070	08.00: N. in English	11845
02.45: Karachi prgr.	7280	08.10: N. in Urdu	
02.50: N. in Pushto		08.20: Karachi prgr.	
03.00: Karachi prgr.			

12.00: N. in English } 7290
12.10: N. in Urdu } 9645
12.20: N. in Pushto
12.35: N. in Kashmiri } 7010
12.45: Kashmiri Prgr. } 9750
13.20: Baluchi N. } 7290 / 9645
14.00: Karachi Prgr. } 7290 / 9645
14.45: N. in English
15.00: N. in Urdu
Karachi to Ea. Pakistan: 01.30–02.50, 06.30–08.20, 12.00–15.15
01.45: N. in Bengali } 15335 / 11885
02.00: N. in English
02.15: N. in Urdu
06.30: N. in English } 17745 / 21590
06.40: N. in Bengali
07.00: Karachi Prgr.
08.00: N. in English } 17745
08.10: N. in Urdu } 21590
12.00: N. in English } 17745
12.10: N. in Urdu } 21590
13.45: N. in Bengali } 15155
14.00: As for W. Pakist. } 11914

Zonal Services:

Lahore	kc/s	Dacca	kc/s	Dacca to We. Pakistan	kc/s
01.30–03.00	4807	01.00–03.00	5980	03.45–04.00	21630
06.30–08.30	7225	06.00–07.30	9614		
12.00–13.30	7096	11.00–13.00	7140		
13.45–17.00	4807	13.15–16.30	5970		

Rawalpindi: kc/s kc/s kc/s
11.30–13.00 (W) 4895, 07.00–08.30 9755, 11.00–11.30 7110.
ANN.: "This is Radio Pakistan, Karachi, Lahore" etc.

EXTERNAL SERVICES

Time	Service	kc/s	Languages
00.30–01.15	So. Ea. As.	11885/15335	Urdu/English
03.45–04.45	So. Ea. Af.	17745/21590	Urdu/Gujrati
08.30–09.15	Ind.	17745/21590	English
09.30–10.30	So. As.	11845/17745	Urdu
10.45–11.00	Gen. Overseas. Sce.*	17745/21590	English
11.00–11.45	Burmese	17745/21590	Burmese
15.30–15.45	Gen. Overseas Sce.**	11674/15275	English
15.30–16.30	Afghan-Persian	7290/9645	Afghan/Persian
16.00–16.45	Iran	5980/7010	Persian
17.00–18.00	Arabic	7010/11674	Arabic
18.15–19.00	Turkish	7010/11674	English
19.15–20.00	U.K.	7010/9690	English

* to F. East. ** to M. East.
N.: English: 10.45–11.00, 15.30–15.45. **Gujrati:** 04.00–04.10. **Burmese:** 11.00–11.10. **Afghan/Persian:** 15.35–15.45. **Arabic:** 17.05–17.15. **Urdu:** 03.50–04.00. **Iranian:** 16.05–16.15. **Turki:** 16.15–16.20.
ANN.: Home Sce. E.: "This is R. Pakistan, Karachi, Lahore...". "This is R. Pakistan calling listeners in (name of target country)".
INT.-SIG.: A signal tune is played during interval signals. – **V.** by QSL-card. – **F.PL.:** 10 kW s.w. tr. at Peshawar and Dacca, m.w. st. at Sylhet. – **PUB.:** "Pakistan Calling" in English. Urdu, Bengali (fortnightly). Monthly Pub. in Arabic, Persian, Burmese.

✶ PHILIPPINES ✶

L.T.: GMT+8 h. – **Pr. L.:** English, Tagalog, Ilocano, Visayan. – **Po.:** 23.562.900. – **Rcvrs.:** 500.000. – **E.C.:** 110/220 V, A.C., 60 c/s. – **Educational and Go. Comm. St.:** 2), 3), 5), 6). – **Religious St.:** 1), 4), 11).
Other st. private comm. – *) inactive.

STATIONS:

Call	kc/s	m	kW	m.w.	Name & h. of tr.
1) DYB4	3277	91.55	0.3	840	Silliman University: W. 21.00–02.00, 09.00–14.00. Sun. 21.00–05.00, 08.00–14.00
2) DUB4	*3286	91.29	2.5	1190	Philippine Broadc. Servi
3) DZCA	3305	90.77	1	550	Nat. Civil Defense Adm. 09.00–13.00
4) DZB2	3345	89.68	2	**	Far East Broadc. Co.: 21.00–15.00
3) DZDA	3365	89.15	1	550	Nat. Civil Defense Adm.: 09.00–14.00
5) DXB3	3945	76.05	0.5	880	Notre Dame Broadc. Corp.: 22.00–14.00
6) DZB6	4945	60.67	0.25	1430	Nat. Teachers College: W. 10.00–13.00. Sun. 05.00–14.00
7) DZH4	6000	50.00	1	650	Voice of the Philippines: 21.00–15.00
4) DZH6	6030	49.75	2	**	Far East Broadc. Co.: 21.00–17.00
1) DYH4	6055	49.55	0.25	840	Silliman University: as 3277 kc
7) DZI7	6080	49.34	0.25	760	Voice of Manila: 21.00–16.00
7) DYH3	6100	49.18	0.25	1260	R. Cebu: 21.00–15.00
8) DZI4	6110	49.10	7.5	580	Republic Broadc. System: inactive.
7) DYH2	6140	48.86	0.25	600	Voice of Cebu: 21.00–15.00
2) DUH2	6170	48.62	0.25	710	Philipp. Broadc. Sce.: 21.00–15.00
9) DXH2	7280	41.21	0.5	900	Mindanao Colleges Broadc. System: 21.00–14.00
10) DZI2	9550	31.41	2	1000	Bolinao Electronics Corpo.: 21.00–17.00
2) DUH3	9570	31.35	0.25	710	Philipp. Broadc. Service: 21.00–15.00
2) DUH4	9615	31.20	0.25	710	Philipp. Broadc. Service: 21.00–15.00
7) DZH2	9640	31.12	1	650	Voice of the Philippines: 21.00–15.00
11) DZH5	9690	30.96	0.25	860	University of Santo Tomas: 10.00–14.00
4) DZH7	9730	30.83	2	**	Far East Broadc. Co.: 21.00–17.00
7) DZH3	9750	30.77	1	800	R. Philippines: 21.00–15.00
2) DUH5	11840	25.34	0.25	710	Philipp. Broadc. Sce.: 21.00–15.00
4) DZH8	11855	25.31	2	**	Far East Broadc. Co.: 21.00–17.00
4) DZF2	11920	25.17	50	**	Far East Broadc. Co.: 13.00–16.30
4) DZH9	15300	19.60	2	**	Far East Broadc. Co.: 21.00–17.00
4) DZF3	15385	19.50	50	**	Far East Broadc. Co.: 23.30–00.30
4) DZI6	17805	16.85	10	**	Far East Broadc. Co.: 21.00–17.00
4) DZI8	21515	13.94	2	**	Far East Broadc. Co.: 22.15–17.00

** 680/1030 kc/s.

Medium Waves: ° Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
11a) DZAA	540	0.5	7) DZMB	°760	1	17) DZXL	960	50
3) DZCA	°550	1	13) DZCP	770	1	10) DZBC	°1000	1
12) DXWW	570	0.5	14) DXCC	780	1	12) DXJW	1010	1
8) DZBB	°580	10	7e) DYVL	790	0.5	8) DYSS	1020	1
7c) DYRC	°600	1	7) DZPI	°800	10	4) DZFE	°1030	1
10) DZAQ	620	50	15) DZMY	830	5	10) DZRI	1040	1
14) DXBC	630	1	1) DYSR	°840	1	10) DZRB	1060	1
7) DZRH	°650	10	11) DZST	°860	1	16) DYWX	1070	1
4) DZAS	°680	10	5) DXMS	°880	1	9) DXCM	1090	1
2) DZFM	°710	10	8) DZXX	890	1	18) DZMT	1100	10
14) DXIC	720	1	9) DXUM	900	1	18a) DZVS	1110	0.5
9) DXMC	°740	0.5	16) DYHF	910	1	19) DYMM	1120	0.5
16) DYOR	1130	1	7c) DYBU	°1260	1	17) DYXL	1400	1
17) DZQL	1160	1	16) DURI	1280	5	6) DZTC	°1430	1
16) DYLL	1170	1	18a) DZEB	1290	1	8) DYOO	1440	1
12) DXAW	1180	1	16) DYML	1310	1	15) DZYY	1460	1
2) DZRM	°1190	5	16) DYRX	1320	1	15) DZEL	1540	0.25
16) DYRM	1200	1	10) DZMM	1340	1	21) DXVA	1560	1
16) DYOG	1210	1	20) DYRL	1360	1	22) DZUP	1580	0.5
16) DZAL	1230	1	18) DZWS	1380	5	23) DYDR	1590	1
7f) DZHF	1250	1	21) DXRM	1390	1			

1) Station DYSR, Dumaguete City. – **L.P.:** Dir. Ad.: H. W. Mack. **HOME SCE. in English & Visayan: N. in English:** 21.00, 23.30, 10.00, 12.00. – **INT.-SIG.:** Sign on: Battle Hymn of the Republic. **ANN.:** "This is the Voice of Christian Brotherhood, DYSR, broadc. from Dumaguete City on 840 kc/s m.w. and on two s.w. stations in the 91 and 49 m. bands". – **V.** by QSL-card or letter. – **PUB.:** Prgr.sched. free on request.
2) 5th Floor, GSIS Bldg., Arroceros and Concepcion Streets, Manila. **HOME SCE. in English & Tagalog. – English: Mbg.:** 24.00, 06.00. **News:** 22.45, 04.45, 12.45, 14.00. **Tagalog: News:** 21.15, 05.00. **V.** by QSL-card or letter. R.p. – **PUB.:** Prgr.sched. on request.
3) Grandstand, Luneta, Manila. – **D. Prgr.: N.: English:** 09.45. **Tagalog:** 10.30. – **V.** by QSL-card and letter.
4) Box 2041, Manila. – **Cable:** Febcom. – **L.P.:** Dir. Gen.: R. H. Bowman & Wm. J. Roberts. Philippine Dir.: W. A. Hulet. Dir. Prgr.: A. D. Golding. Dir. Adm.: R. A. Reynolds.

PHILIPPINE SCE.: In Tagalog, Ilocano, Cebuano, English, Spanish, Cantonese, Mandarin, Amoy.
On 680/1030/3345/6030 **kc/s: W.** 20.55–06.00, 08.00–15.00 (Sat. 15.30). Sun. 20.55–15.30. **English: W.** 23.00–01.45, 02.45–05.00, 08.00–09.30, 10.00–10.15, 11.30–15.00 (Sat. 15.30). Sun. 23.00– 05.00, 06.00–10.15, 11.30–15.30. – **N. in English:** 23.00 (W), 23.30, 04.00, 10.00 (W), 14.00. – **N. in Tagalog:** D. 22.30. – **Spanish:** Mo.-Fri. 01.45–02.00.
OVERSEAS SCE.: On 9730/11855/11920/15300/15385/17805/21515 **kc/s:** D. 21.00–01.30, 04.00–06.30, 07.30–17.00.
English: 23.30–00.30, 04.00–04.15, 06.00–06.15, 07.30–09.15, 13.00–13.30, 14.00–16.30 (N. 23.30, 04.00, 06.00, 09.00, 15.00, 15.45).
Burmese/Karen: 06.15. – **Cambodian:** 05.00, 12.30. – **Chinese:** 22.45, 03.00, 04.15, 05.30, 09.15, 13.00, 16.00. – **India/Pakistan languages:** 13.30–15.00. – **Indonesian:** 23.45, 10.00. – **Japanese:** 21.00–22.30, 10.30–11.30. – **Laotian:** 11.15. – **Nepali/Tibetan:** 01.15. – **Thai:** 00.00, 12.00. – **Russian:** 16.00–17.00. – **Vietnamese:** 04.45, 12.45.
ANN.: E.: Philippine Sce.: "This is the Call of the Orient. (Chimes – 13 seconds). The Philippine Sce. of the Far East Broadcasting Company, DZAS 680 kc/s medium wave and related shortwave stations in the 89 and 49 meter bands... from Manila. This is the Call of the Orient... DZAS, DZB2 and DZH6... The Philippine Sce. of the

Far East Broadcasting Company... serving the Philippines". **Overseas Sce.:** "This is the Call of the Orient (chimes - 13 seconds) the Overseas Sce. of the Far East Broadcasting Company operating in the... meter bands. This is the Call of the Orient, Manila, operating at... mc/s". **INT.-SIG.:** Chimes (every hour). - V. by QSL-card and letter. R.p. is welcomed. Seperate card used for each freq. - **PUB.:** prgr. schedule free on request.

5) Cotabato City, Cotabato. - **Home Sce. in English, Tagalog, Visayan, Chinese, Ilocano:**

6) National Teachers College, Tanduay, Manila. - **ANN.: E.:** "This is the Voice of Education". - V. by letter.

7) **MANILA BROADCASTING COMPANY**
ADDR.: Radio Center Philippines, 964 Taft Avenue, Manila. - **Cable:** "MANBROADCO". - **L.P.:** Gen. Mgr.: Ira Davis.

a) **THE VOICE OF PHILIPPINES**
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila. - **L.P.:** Production Mgr.: Ray Cordova. - **HOME SCE.: In English, Tagalog: N. in English:** W.: 00.00, 05.05, 13.00. **Wrp.:** Usually in the mornings. In the presence of a storm in the archipelag several times during the day. - V. by QSL-card. R.p.

b) **THE VOICE OF MANILA**
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila. - **L.P.:** Production Mgr.: Phil. Delfino. - **HOME SCE. in English, Tagalog: N. in English:** D. 05.15 (Ann.: Cris de Vera). - V. by QSL-card. R.p.

c) **CEBU BROADCASTING COMPANY:** ("VOICE OF CEBU" & "RADIO CEBU"): **ADDR.:** Lim Bon Fing Building, Cebu City. **L.P.:** Mgr. & Sales Dir.: Roberto M. Garcia. Dir. of Prgr.: V. P. Vamenta. Chief Studio Supervisor: Jose Explanada. Chief, Transmittor Site: E. Dayondon. **PRO.:** G. M. Mercado.
HOME SCE. in English & Visayan: N. in English: Sun. 03.15. Mo.-Sat.: 23.15, 15.00, 08.30, 13.45. (Ann.: S. D. Tecson). - **INT.-SIG.:** For DYRC musical chimes: Sol-mi-do. - V. by QSL-card. R.p. - **F.PL.:** DYRC 5 kW.

d) **RADIO PHILIPPINES**
ADDR.: R. Center Philippines, 964 Taft Avenue, Manila. - **L.P.** Producting Mgr.: Ben Francisco. - **HOME SCE. in English, Spanish, Tagalog: N. in English:** D. 01.00. **Spanish:** "LA TABERNA": D. 04.30-05.15. (Ann.: Mecca Trapaga). **Chinese hour:** Mo.-Sat. 06.00-06.30. (Ann.: Mary Yu). - V. by QSL-card. R.p.

e) **THE VOICE OF LEYTE**
ADDR.: Red Beach, Palo, Leyte. - **L.P.:** Production Mgr.: Eduardo Montilla. Broadcasts in **English** and **Waray-Waray** dialec.

8) RBS Building Highway 54, Diliman, Q.C. - **Cable:** "Bobstew". **L.P.:** Station Mgr.: George E. Viduya.
HOME SCE. in English, Chinese, Tagalog: DZBB: 21.00-16.00; DXZZ: 20.00-16.00; DYSS: 21.00-15.00; DYOO: 21.00-15.00.

9) Davao City, Mindanao.
HOME SCE. in English, Visayan: DZMC & DXUM: 21.00-14.00. **ANN.:** "This is MCBS, The Mindanao Colleges Broadcasting System. DXMC, The Voice of Davao, broadcasting from the heart of Davao".

10) **ADDR.:** P.O. Box 1344, Manila. - DZAQ, DZBC: 5th Floor, Republic Super Market Bldg., Manila. DZRI: Blue Beach, Dagupan City. - DZMM: San Juan. - DZRB: El Morocco Hotel, Naga City.
HOME SCE. in English, Tagalog: DZAQ: 21.00-16.00, DZBC: 20.00-17.00, DZRI: 21.00-16.00, DZMM; 24 h. DZRB: 21.00-01.00, 04.00-14.00.

11) The Voice of the Catholic Philippines University of Santo Tomas, Espana, Manila.
HOME SCE. in Tagalog, English & Spanish: N. in English: 10.15. **Mbg.** (English): 10.30 (Tues., Thurs., Sat.). **N. in Spanish:** 12.15. **Nat. Music (Tagalog):** 11.00.
ANN.: E.: "This is the Voice of the Catholic Philippines, Radio Stations DZST and DZH5, broadcasting from Manila".
INT.-SIG.: Chimes. - V. by QSL-card. - **F.PL.:** Increase of h. of tr.

Medium Waves:

11a) **Pacific Broadcasting System, Inc.,** Eden Hotel, Legaspi City. - **D. Prgr.:** 21.00-15.00.

12) **Pioneer Station,** P.O. Box 121, Davao City. - **L.P.:** Dir.: A. J. Wills. DXWW: 22.00-15.00. DXJW: 22.00-14.00. DXAW: 21.00-16.00 in **English, Visayan.**

13) **R. Station DZCP,** Roman Santos Bldg., Manila. - **L.P.:** Dir.: E. B. Lenn. - **D. Prgr.:** 21.00-16.00.

14) **R. Mindanao:** Cagayan de Oro City. - **L.P.:** Dir.: H. Canoy. Dir. Tec.: M. Gualberto. - **D. Prgr.:** 22.00-14.00 in **English, Visayan.**

15) **Monserrat Broadcasting System,** CBN Bldg., Aduana Str., Intramuros, Manila. - **D. Prgr.:** DZMY: 21.00-17.00. DZYY-FM: 24 h.

16) **Visayan Broadcasting System,** P.O. Box 41, Iloilo City. - **L.P.:** Dir.: E. Lopez. - **D. Prgr.:** DYHF (Iloilo City): 21.00-15.00. DYLL (Tacloban): 21.00-16.00. DYRI (Iloilo City): 21.00-16.00. DYWX (Bacolod City)/DYOR (Ormoc City)/DYRM (Dumaguete City) / DYOG (Calbayog City)/DZAL (Legaspi City)/ DYML (Tagbilaran, Bohol): 21.00-16.00.

17) **The Manila Chronicle Network,** Aduana, Manila. - **D. Prgr.:** DZXL: 21.00-15.00. DZQL: 24 h. DYXL: 21.00-16.00. DZYL/FM: 21.00-15.00.

18) **Manila Times Publishing Co.,** Manila. - **L.P.:** Dir.: F. Torres. - **D. Prgr.:** DZMT/DZMT-FM/DZWS: 21.00-16.00.

18a) **Oceanic Wireless Network, Inc.,** Alliance Bldg., Rosario, Manila. - DZEB (Naga City)/DZVS (Sorsogon): 22.00-16.00.

19) **R. Station DYMM,** Bacolod City. - **L.P.:** F. R. del Rosario. - **D. Prgr.:** 21.00-17.00.

20) **Bacolod Broadcasting System,** Lacson Str., Bacolod City. - **L.P.:** Dir.: R. Lopez. - **D. Prgr.:** 21.00-16.00. - V. by QSL-card or letter.

21) **Mindanao Broadcasting Co.,** Marawi City. 22.00-13.00.

22) **University of the Philippines, Diliman, Q.C.:** 22.00-15.00.

23) **Central Philippines Broadcasting Co.,** 148 Colon St., Cebu City. - **D. Prgr.:** 21.00-16.00.

VOICE OF AMERICA RADIO STATION IN MANILA

ADDR.: Voice of America, Washington 25, D.C., U.S.A.
STATIONS:
Medium Wave: Manila-A 920 kc/s 326 m 50 kW: 11.00-16.30.
Short Wave: Manila 7.5/50 kW: 09.00-16.30, 21.00-01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9770	30.71	11790	25.45	15245	19.68	17750	16.90
11765	25.50	15210	19.72	15250	19.67		

D.PRGR.: Medium Wave: 11.00-11.30 **English.** 11.30-12.00 **Mandarin.** 12.00-16.30 **English.**
Short Wave. See U.S.A.
ANN.: "This is the Voice of America Transmitter in the Philippines".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See U.S.A. - V. by QSL-card.

VOICE OF AMERICA RADIO STATION IN NORTHERN LUZON

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
Medium Wave: Philippines-B 1140 kc/s 263 m 1000 kW: 11.30-16.30.
Short Wave: Philippines 35/100 kW: 09.00-17.00, 22.00-02.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
6125	48.98	11890	25.23	15185	19.76	15335	19.56
9535	31.46	11895	25.22	15200	19.74	17780	16.87
11790	25.45	15125	19.83	15275	19.64		

D. PRGR.: Medium Wave:
11.30-12.00 Mandarin 13.30-14.00 Burmese 15.30-16.00 Vietnamese
12.00-12.30 Cantonese 14.00-14.30 Amoy 16.00-16.30 **English**
12.30-13.00 Vietnamese 14.30-15.00 Mandarin
13.00-13.30 **English** 15.00-15.30 Cantonese **Short Wave:** see USA.
ANN.: "This is the Voice of America Transmitter in the Philippines".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. - V. by QSL-card.
ARMED FORCES RADIO & TV SERVICE: See USA.

★ RYUKYU ISLANDS ★

L.T.: GMT+9 h. - **Pr. L.:** English, Japanese. - **Po.:** 850.000. - **Revrs.:** 22.000. - **E.C.:** 110 V, A.C., 60 c/s.

RYUKYUS BROADCASTING CORPORATION (Comm.)

ADDR.: C.P.O. Box 186, Naha, Okinawa.
HOME SERVICE:
KSAR 740 kc/s 3 kW 20.30-15.00 in **Japanese**
KSBK 880 - 0.5 - 21.00-15.00 in **English**

FAR EAST BROADCASTING CO. (Rel.)

ADDR.: Box 55, Naha, Okinawa.
KSAB 1020 kc/s 3 kW in **Japanese** and **English**
F.PL.:
KSBU 850 kc/s 100 kW (in 1960) Chinese.
KSDX 1250 - 1 - (in 1960) Japanese.
KSAB broadcasting in English only.

R. OKINAWA BROADC. CO. (Comm.), Naha.

KSDT 1370 kc/s 3 kW (in 1960) Japanese/English.

VOICE OF AMERICA RADIO STATION IN OKINAWA

ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS:
Medium Wave: Okinawa-A 1180 kc/s 254 m 1000 kW: 10.30-16.30.
Short Wave: Okinawa 35/100 kW: 09.00-16.30, 21.00-01.30.

kc/s	m	kc/s	m	kc/s	m	kc/s	m
7160	41.90	9670	31.02	11960	25.08	15380	19.51
9615	31.20	9745	30.79	15215	19.72	17795	16.86
						17875	16.78

D. PRGR.: Medium Wave:
11.00-11.30 English 12.30-13.00 Mandarin 14.30-15.00 Mandarin
11.30-12.00 Mandarin 13.00-13.30 Korean 15.00-15.30 Russian
12.00-12.30 Russian 13.30-14.00 Mandarin 15.30-16.00 Mandarin
14.00-14.30 English 16.00-16.30 **English**
Short Wave: see USA.
ANN.: "This is the Voice of America Transmitter on Okinawa".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA.
V. by QSL-card.
ARMED FORCES RADIO & TV SCE.: see USA.

★ SARAWAK (British) ★

L.T.: GMT+8 h. – Pr.L.: English, Malay, Chinese, Iban. – Po.: 643.000. – Rcvrs.: 35.000. – E.C.: 400/230 V., A.C., 50 c/s.

SARAWAK BROADCASTING SERVICE (Go.)
ADDR.: Radio Sarawak, Broadcasting House, Kuching. – Cable: Broadcast.
L.P.: Dir. Broadc.: P. Ratcliffe, OBE. Dir. Tec.: J. R. Sandison.
HOME SERVICES: D. 04.00–05.30(Sat. & Sun. 06.30), 08.30–14.30.

850 kc/s	352.9 m	5	kW	1300 kc/s	230.7 m	0.25 kW	
4860 –	61.73 –	5	–	9565 –	31.36 –	7.5	–
4950 –	60.60 –	7.5	–				

On 850/9565 kc/s: 04.00–05.30(Sat. & Sun. 06.30)
04.00–5.00: English (Thurs., Sat. & Sun.), Malay (Mo., Wed.), Chinese (Tues., Fri.). – English: 05.00–05.30 (Sat. & Sun. 06.30).
On 850/4860 kc/s: 8.30–14.30: English: 11.00–12.30, 13.00–14.30. – Malay: 08.30–11.00, 12.30–13.00.
On 1300/9565 kc/s: Chinese: 09.15–10.45, 12.30–14.00.
On 1300/4950 kc/s: Iban: 11.00–12.30.
ANN. E.: "This is Radio Sarawak". – V. by QSL-card or letter. – PUB.: "R. Times of Sarawak" (Fortnightly), "Iban Radio Quarterly".

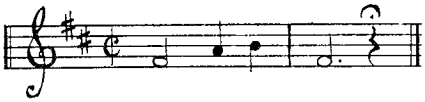
★ SINGAPORE (British) ★

L.T.: GMT+7½ h. – Pr.L.: English, Malay, Chinese, Tamil. – Po.: 1.549.000. – Rcvrs.: 91.696. – E.C.: 230 V., A.C. 50 c/s.

RADIO SINGAPORE (Go.)
ADDR.: Dept. of Broadcasting, P.O. Box 1902, Singapore. – Cable: Broadcast. – L.P.: Dir. of Broadc.: H. H. Beamish. Dir. Tec.: L. F. Lambert.
HOME SERVICE in English and Malay: 23.00–15.30.

Call	kc/s	m	kW	
ZHL	630	476	10	English: Mo.–Fri.: 23.00–01.30, 05.30–06.30
ZHL2	790	380	10	09.30–15.30. Sat., Sun.: 23.00–15.30.
ZHL5	990	303	10	

ANN.: E.: "This is R. Singapore". – INT.-SIG.: First four notes of "Dayong Sampan" (guitar). – V. by QSL-card.



FORCES BROADCASTING SERVICE (British Military)
ADDR.: Forces Broadcasting Unit, GHQ FARELF, c/o G.P.O., Singapore. – L.P.: Station Commander: W. J. O. Ettridge.
D. PRGR.: 5010 kc/s 59.88 m 7.5 kW: 10.45–14.00. D. 10.45–12.00 British Prgr.; D. 12.00–14.00 Gurkhali. – V. by letter.
BBC FAR EASTERN STATION: See Gt. Britain.

★ THAILAND ★

L.T.: GMT+7 h. – Pr. L.: Thai. – Po.: 25.000.000. – Rcvrs.: 250.000. E.C.: 110/220 V., A.C., 50 c/s.

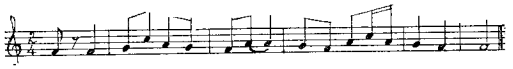
THE THAI NATIONAL BROADCASTING STATION (Go.)
ADDR.: Public Relations Department, Bangkok.
HOME SERVICE: D. 00.00–01.00, 12.00–15.30.

	kc/s	m	kW		kc/s	m	kW
HSK	825	363.0	10	HSK6	7140	42.02	1
HSK	4830	62.10	1	HSK7	11910	25.18	0.5
HSK5	6070	49.42	1	HSK8	15630	19.19	0.25

FOREIGN SERVICE: HSK9 15387 kc/s 19.50 m 50 kW.
General Overseas Sce.: 10.25–11.57. N. in English: 10.30. – Rel. Home Sce.: 13.00–14.00.
No. American Service: 04.15–05.15. N. in E.: 04.25.
For Thai Forces in Korea: 09.30–10.20.
ANN.: E.: "This is the Overseas Broadcasting Station of Thailand".
INT.-SIG.: Chimes. – V. by QSL-card and letter.

MINISTRY OF EDUCATION (Go.)
ADDR.: Division of Educational Inf., Ministry of Education, Bangkok. – L.P.: Chairman of Executive Board of Education Broadc. Sce.: N. Devahastin. Secr. Gen., Dir. Div. of Educational Inf.: Mrs. A. Meesok. Dir. Tec.: S. Hongpromyat. Studio Mgr.: M.R.S. Svasti.
HOME SCE.: 11.00–13.00 in Thai, English:
1172 kc/s 255.8 m 2 kW – 3202 kc/s 93.69 m 2 kW – 6062 kc/s 49.48 m 2 kW.
N.: 11.35, 12.55. – Nat. Music: 12.10–12.55. – English: Wed. 11.50–12.10; one Tues. monthly 12.10–12.55.
ANN.: E.: "This is the Education Broadcasting Station of Thailand, broadcasting on a frequency of...". – V. by letter. – F.PL.: Increase to 10 kW.

PITUKSUNTIRADSE RADIO STATION (Go.)
ADDR.: Paruksakavun Palace, Bangkok. – L.P.: Dir. Gen.: Pol. Gen.: C. Umpatami. Dir. Prgr.: Pol. Maj. P. Sichiorn. Dir. Adm.: Pol. Let. T. Patamanon.
HOME SERVICE in Thai: HSQ
Network I: 23.00–01.00, 09.00–13.00.
900 kc/s 333.3 m – 4770 kc/s 62.89 m – 7230 kc/s 41.49 m à 1 kW.
Network II: 04.00–07.00, 09.00–15.00.
995 kc/s 301.5 m 0.25 kW – 1400 kc/s 214.3 m 1 kW.
Network III: 23.00–02.30, 05.00–06.00, 08.30–15.15.
1080 kc/s 277.8 m – 4620 kc/s 64.93 m – 5850 kc/s 51.27 m – 7620 kc/s 39.37 m – 0.5 kW.
N.: 00.00–00.15, 11.30–11.45, 12.45–13.15. – Wrp.: 01.00, 11.45.
ANN.: In Thai and English.
INT.-SIG.:



TERRITORIAL DEFENSE BROADCASTING STATION (Military) Bangkok.
HOME SCE. in Thai: HSARD 4838 kc/s 62.00 m 0.4 kW:
W. 00.30–04.00, 05.00–08.00, 10.30–15.30 (Sun. 10.25–15.00).

THAI TELEVISION CO. LTD. (Comm.)
ADDR.: Manson B. Rajadammern Ave., Bangkok.
HOME SERVICE in Thai: 22.57–16.20.
1500 kc/s 200 m – 5270 kc/s 56.93 m: N. 16.00.
ANN.: E.: "This is Thai TV-Radio, the broadcasting station of the Thai Television Company".

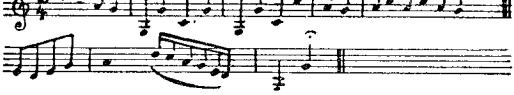
★ VIETNAM (Republic) ★

L.T.: GMT+7 h. – Pr. L.: Vietnamese, French, Chinese. – Po.: 12.000.000. – Rcvrs.: 120.000. – E.C.: 115 V., A.C., 50 c/s.

THE NATIONAL BROADCASTING SYSTEM OF THE REPUBLIC OF VIETNAM (Go.)
Called "VTVN" (Standing for Vô-Tuyén Viêtnam).
ADDR.: 3 Duong Phan-dinh-Phung, Saigon. – L.P.: Dir. Gen.: Buu-Tho. Dir. Tec.: Lung-Ját-Chuong. Dir. Prgr.: Buu-Nghi. Adm. Dir.: Ngo-Van-Sieng.
STATIONS: Radio VTVN Saigon:

838 kc/s	358 m	1 kW	–	7260 kc/s	41.32 m	12 kW	
1090 –	275 –	5 –	–	9620 –	31.19 –	12 –	
1360 –	220 –	1 –	–	9754 –	30.76 –	25 –	

HOME SERVICE:
On 1090, 6165, 9754 kc/s: Vietnamese: 22.45–02.30, 04.00–06.30, 09.00–16.00. Nat. Music: 22.45, 23.15, 01.00, 04.00, 04.45, 05.50, 09.00, 09.45, 10.45, 12.00, 12.45, 13.20, 14.15. N.: 23.00, 24.00, 00.30, 00.45, 01.15, 04.00, 04.35, 05.35, 06.00, 09.30, 10.30, 11.30, 12.30, 13.00, 14.00, 15.00, 15.30. Wrp.: 23.00, 06.30, 15.45. Mbg.: Sun. 02.00. – On 838, 7260 kc: Vietnamese: 22.58–00.15, 01.15–02.30, 04.30–06.15, 07.00–08.15, 10.00–13.15. – Thai: 00.45–01.15, 13.15–13.45. – English: 00.15–00.45, 06.15–07.00, 13.45–14.45. L.L.: 14.45. Music: 15.45. On 1360, 9620 kc: Vietnamese: 22.58–00.00, 04.30–05.00, 06.00–06.30, 15.30–16.00. – French: 00.40–01.00, 05.00–06.00, 11.30–15.30. – Cambodian: 11.00–11.30. – Chinese: 01.00–02.15, 06.30–08.15, 10.00–11.00.
ANN.: Vietnamese: "Day la Dai Tieng Noi Nuoc Vietnam Cong-Hoa, phat thanh tu Saigon". French: "Ici VTVN Saigon, la voix de la République du Vietnam". English: "This VTVN. The Voice of the Republic of Vietnam broadcasting from Saigon".
TWT.-SIG.:



V. by letter and QSL-card. R.p. – F.PL.: New sts. Increase power.
REGIONAL STATIONS (in Vietnamese only):
R. VTVN HUE: 22.30–23.30, 02.30–03.30, 04.30–05.30, 10.00–13.50 1150 kc/s 261 m 1 kW – 7205 kc/s 41.63 m 1 kW.
R. VTVN DALAT: 23.00–24.00, 10.00–12.45.
1440 kc/s 208 m 1 kW – 6183 kc/s 42.52 m 1 kW.
R. VTVN NHATRANG: 23.00–00.30, 04.30–06.30, 10.30–14.00. 1490 kc/s 201 m 1 kW.

★ VIETNAM (Democratic Republic) ★

L.T.: GMT+7 h. – L.: Vietnamese, English, French, Cambodian, Chinese, Laotian.

THE VOICE OF VIETNAM (Go.)
ADDR.: No. 58, Quan-Su Street, Hanoi.
STATIONS: Hanoi.

1010 kc/s	296.5 m	7400 kc/s	40.54 m	11840 kc/s	25.34 m
1200 –	250.0 –	9840 –	30.49 –	12000 –	25.00 –
4730 –	63.48 –	9940 –	30.18 –	15020 –	19.98 –
6100 –	49.18 –				

HOME SCE. in Vietnamese: 22.30–00.45, 04.15–06.30, 09.30–16.00. FOREIGN SCE.:09.30–15.45 on 1200/9840/11840 kc/s. – English: 14.00–14.30, 15.00–15.45. – French: 12.30–13.00. – Vietnamese: 09.30, 11.30. – Mandarin: 10.00. – Thai: 10.30. – Cantonese: 11.00. – Laotian: 12.00. – Cambodian: 13.00. – ANN.: E.: "This is the Voice of Vietnam, Hanoi". – V. by QSL-card or letter.

★ AUSTRALIA ★

L.T.: E. Aust.: GMT+10 h., S. Aust.: GMT+9½ h., W. Aust.: GMT+8 h. – Pr.L.: English. – Po.: (March 1959): 10.008.665. – Revrs.: (July 1959): 2.265.530. – E.C.: 230/240 V., A.C., 50 c/s.

AUSTRALIAN BROADCASTING COMMISSION (ABC)

The Australian National Broadcasting Sce. prgrs. are the responsibility of the A.B.C., which is responsible to the Postmaster-General The technical sces. in Radio are provided by the Postmaster-General's Dept., and for TV by the A.B.C. Engineering Dept. –

ADDR.: Head Office: Australian Broadcasting Commission, 264 Pitt St., Box 487 G.P.O., Sydney. – Overseas Sce.: Radio Australia, P.O. Box 428G, G.P.O., Melbourne. – Cable: ABCOM SYDNEY

L.P.: Chairman: Sir Richard Boyer. Vice-Chairman: E. R. Dawes, C.M.G. Gen. Mgr.: Charles Moses, C.B.E. Asst. Gen. Mgr. (General): A. N. Finlay. Asst. Gen. Mgr. (Prgr.): Dr. K. L. Barry. Asst. Gen. Mgr. (Adm.): T. S. Duckmanton. Controller of News: W. Hamilton. Controller of Finance: R. G. Gifford. Dir. Publicity: Charles Buttrose. Dir. Music: H. Cannon. Dir. Drama & Features: N. Hutchison. Dir. Youth Education: C. Bull. Dir. Talks: A. Carmichael. Supvr. Religious B'casts: Dr. J. Munro. Dir. Rural B'casts: J. Douglass. Supvr. Sporting B'casts: B. Kerr. Supvr. Children's Hour: J. Appleton. Concert Mgr.: R. Lamb. Dir. Prgr.s (Overseas): P. W. R. Homfray.

THE NATIONAL BROADCASTING SERVICE

MEDIUM WAVE SERVICE [1]=Metropolitan [2]=Regional

Cal	kc/s	kW	Name/Location	h. of tr.
Australian Capital Territory				
2CY[2]	850	10	Canberra	20.00(Sun.20.30)–13.30(Sat.14.00)
2CN[1]	1540	2	Canberra	20.00–13.00(daily)
New South Wales				
CR[2]	550	10	Orange	20.00(Sun.20.30)–13.30(Sat.14.00)
2ML[2]	560	0.2	Murwillumbah	20.00(Sun.20.30)–13.30(Sat.14.00)
2FC[1]	610	10	Sydney	20.00–13.30(Sat.14.00)
2NU[2]	650	10	Tamworth	20.00(Sun.20.30)–13.30(Sat.14.00)
2CO[2]	670	10	Albury	
2KP[2]	680	10	Kempsey	
2NR[2]	700	50	Grafton	
2TR[2]	720	0.2	Taree	
2BL[1]	740	10	Sydney	20.00(Sun.20.30)–13.00
2NB[2]	760	1	Broken Hill	20.30(Sun.21.00)–14.00(Sat.14.30)
2BA[2]	810	10	Bega	20.00(Sun.20.30)–13.30(Sat.14.00)
2GL[2]	820	10	Glen Innes	20.00(Sun.20.30)–13.30(Sat.14.00)
2NC[2]	1230	10	Newcastle	20.00(Sun.20.30)–13.00
2NA[2]	1510	10	Newcastle	20.00–13.30(Sat.14.00)
2LG[2]	1570	0.2	Lithgow	20.00(Sun.20.30)–13.30(Sat.14.00)
2WN[2]	1580	2	Wollongong	
Victoria				
3WV[2]	580	10	Horsham	20.00(Sun.20.30)–13.30(Sat.14.00)
3AR[1]	620	10	Melbourne	20.00–13.00(Sat.14.00)
3LO[1]	770	10	Melbourne	20.00(Sun.20.30)–13.00
3GI[2]	830	7	Sale	20.00(Sun.20.30)–13.30(Sat.14.00)
3WL[2]	1570	0.2	Warrnambool	
Queensland				
4QL[2]	540	10	Longreach	20.00(Sun.20.30)–13.30(Sat.14.00)
4QR[1]	590	10	Brisbane	20.00(Sun.20.30)–13.00
4AT[2]	600	0.5	Atherton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QN[2]	630	50	Townsville	
4QA[2]	720	2	Mackay	
4QS[2]	750	10	Toowoomba	
4QG[1]	790	10	Brisbane	20.00–13.30(Sat.14.00)
4RK[2]	840	10	Rockhampton	20.00(Sun.20.30)–13.30(Sat.14.00)
4QB[2]	910	2	Maryborough	
4QY[2]	940	2	Cairns	
4GM[2]	1570	0.2	Gympie	
4SO[2]	1590	0.2	Southport	
South Austra				
5CK[2]	640	10	Port Pirie	20.30(Sun.21.00)–14.00(Sat.14.30)
5CL[1]	730	5	Adelaide	20.30–14.00(Sat.14.30)
5AN	[illegible]	2	Adelaide	20.30(Sun.21.00)–14.00(Sun.13.30)
5PA[2]	1160	2	Penola	20.30(Sun.21.00)–14.00(Sat.14.30)
5LN[2]	1530	0.2	Port Lincoln	
5WM[2]	1580	0.05	Woomera Rocket Range	
5MG[2]	1580	0.2	Mt. Gambier	
5MV[2]	1590	2	Renmark	
Western Australia				
6WA[2]	560	50	Wagin	22.00(Sun.22.30)–15.30(Sat.16.00)
6NM[2]	600	0.2	Northam	
6AL[2]	650	0.4	Albany	
6WF[1]	690	5	Perth	22.00–15.30(Sat.16.00)
6GF[2]	720	2	Kalgoorlie	22.00(Sun.22.30)–15.30(Sat.16.00)
6WN[1]	810	10	Perth	22.00(Sun.22.30)–15.00
6GN[2]	830	2	Geraldton	22.00(Sun.22.30)–15.30(Sat.16.00)
Tasmania				
7ZL[1]	600	10	Hobart	20.00–13.30(Sat.14.00)
7QN[2]	630	0.2	Queenstown	20.00(Sun.20.30)–13.30(Sat.14.00)
7NT[2]	710	10	Launceston	20.00(Sun.20.30)–13.30(Sat.14.00)
7ZR[1]	940	10	Hobart	20.00(Sun.20.30)–13.00
Northern Territory				
5DR[2]	650	2	Darwin	20.30(Sun.21.00)–14.00(Sat.14.30)
5AL[2]	1530	0.2	Alice Springs	

Papua/New Guinea: 9PA 1250 kc/s 0.5 kW Port Moresby: 20.00(Sun. 20.30)–13.30(Sat.14.00).

FM SCE.: (Exp.): D.: 01.00–13.00, exc. Adelaide: D. 01.30–13.30.

Melbourne	90.4 mc/s	2 kW	
Brisbane	94.1 –	1 –	
Sydney	92.1 mc/s	2 kW	
Adelaide	97.3 –	3 –	

DOMESTIC SHORT WAVE SERVICE:

ADDR.: Sydney: A.B.C., Box 487, G.P.O. – Melbourne: A.B.C., Box 1686, G.P.O. – Brisbane: A.B.C., Box 293E, G.P.O. – Perth: A.B.C., Box 190D, G.P.O. – Port Moresby: A.B.C., Port Moresby.

STATIONS: Sydney: VLI (2 kW). – Melbourne: VLH (10 kW) & VLR (5 kW). – Brisbane: VLQ (10 kW) & VLM (10 kW). – Perth: VLW (2 kW) & VLX (10 kW). – Port Moresby: VLT (2 kW).

Call	kc/s	m	h. of tr.
VLI6	6090	49.26	20.00(Sun.20.30)-13.30(Sat.14.00)
VLH11	11880	25.25	20.00(Sun.20.30)–23.15(Sat.22.45)
VLH15	15230	19.70	23.30(Sat.23.00)–08.15
VLH9	9680	30.99	08.30–13.30(Sat.14.00)
VLR6	6150	48.78	20.00(Sun.20.30)–22.15(Sat.22.30), 08.30–13.00
VLR9	9680	30.99	22.30(Sat.22.45)–08.30
VLQ9	9660	31.06	20.00(Sun.20.30)–13.30(Sat.14.00, Sun.13.00)
VLM4	4920	60.98	20.00(Sun.20.30)–13.30(Sat.14.00)
VLW6	6140	48.96	22.00(Sun.22.30)–00.00, 10.30–15.30(Sat.16.00)
VLW9	9610	31.22	00.15–10.15
VLX9	9610	31.22	as VLW6
VLX15	15425	19.45	00.15–10.15
VLT6	6130	48.94	20.00(Sun.20.30)–13.30(Sat.14.00)

N.: 20.00 (not Sun.), 20.45, 21.15(Sun. 21.30), 21.45(Sun. 22.45), 00.00 (not Sat. or Sun.), 02.30, 03.30, 06.00 (not Sun.), 09.00, 11.00, 12.30, 13.00 (BBC & Aust.). – NOTE: Although times are in GMT, calendar days apply to the Ea. States of Aust. only.

ANN.: "This is the A.B.C...". – INT.-SIG.: Three Gongs (C.F.A.). – PUB.: "TV News-Times", R. Australia Prgr. Guide, Schools Broadcasts booklets.

OVERSEAS SERVICE – R. AUSTRAL A

ADDR.: Radio Australia, P.O. Box 428G., G.P.O., Melbourne.

TRANSMITTERS: Shepparton: VLA, VLB 100 kW, VLC, VLD 50 kW, VLY 10 kW. Lyndhurst: VLG 10 kW.

VLA6, VLB6, VLC6 VLD6, VLG6:
6070 kc/s 49.42 m, 6170 kc/s 48.62 m.

VLA7, VLB7, VLC7, VLD7, VLG7:
7135 kc/s 42.05 m, 7205 kc/s 41 64 m, 7215 kc/s 41.58 m, 7220 kc/s 41.55 m, 7240 kc/s 41.44 m, 7280 kc/s 41.21 m.

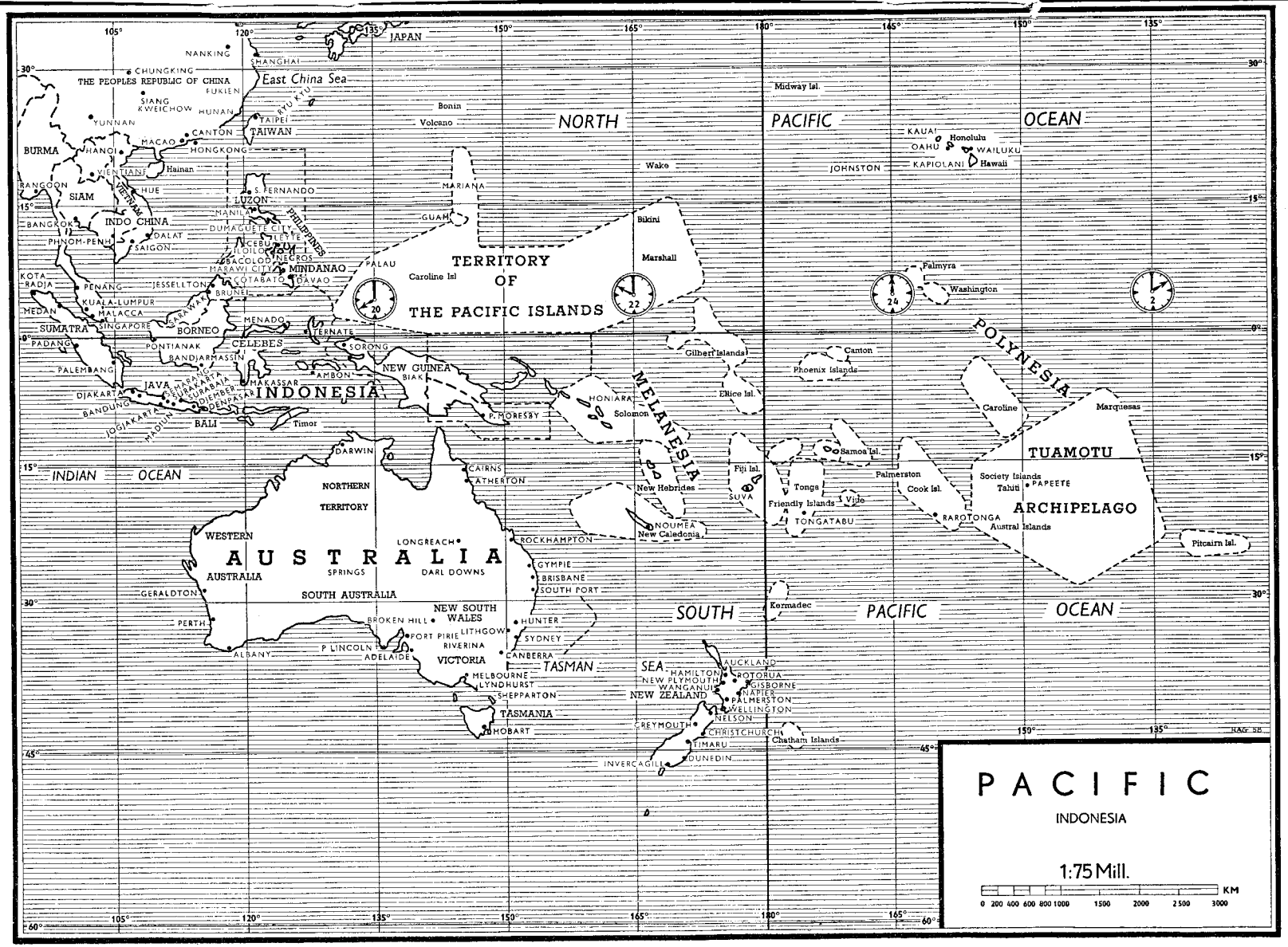
VLA9, VLB9, VLC9, VLD9, VLG9:
9510 kc/s 31.55 m, 9520 kc/s 31.51 m, 9540 kc/s 31.45 m, 9560 kc/s 31.38 m, 9580 kc/s 31.32 m, 9615 kc/s 31.20 m, 9635 kc/s 31.14 m, 9650 kc/s 31.09 m, 9680 kc/s 30.99 m.

VLA11, VLB11, VLC11, VLD11, VLG11:
11710 kc/s 25.62 m, 11740 kc/s 25.55 m, 11760 kc/s 25.51 m, 11770 kc/s 25.49 m, 11810 kc/s 25.40 m, 11840 kc/s 25.34 m, 11850 kc/s 25.32 m, 11870 kc/s 25.27 m, 11880 kc/s 25.25 m, 11900 kc/s 25.21 m, 11945 kc/s 25.12 m.

VLA15, VLB15, VLC15, VLD15, VLG15:
15120 kc/s 19.84 m, 15160 kc/s 19.79 m, 15175 kc/s 19.77 m, 15200 kc/s 19.74 m, 15210 kc/s 19.72 m, 15220 kc/s 19.71 m, 15230 kc/s 19.70 m, 15240 kc/s 19.68 m, 15315 kc/s 19.59 m, 15320 kc/s 19.58 m, 15425 kc/s 19.45 m.

VLA17, VLB17, VLC17, VLD17, VLG17:
17710 kc/s 16.94 m, 17790 kc/s 16.85 m, 17800 kc/s 16.85 m, 17840 kc/s 16.82 m, 17860 kc/s 16.80 m, 17865 kc/s 16.80 m.

VLA21, VLB21, VLC21, VLD21, VLG21:
21475 kc/s 13.97 m, 21540 kc/s 13.93 m, 21590 kc/s 13.90 m, 21600 kc/s 13.89 m, 21680 kc/s 13.84 m.


PACIFIC
INDONESIA
1:75 Mill.
KM
0 200 400 600 800 1000 1500 2000 2500 3000
NORTH PACIFIC OCEAN
SOUTH PACIFIC OCEAN
INDIAN OCEAN
TASMAN SEA
East China Sea
TERRITORY OF THE PACIFIC ISLANDS
MELANESIA
POLYNESIA
TUAMOTU ARCHIPELAGO
AUSTRALIA
INDONESIA
NEW GUINEA
NEW ZEALAND
JAPAN
THE PEOPLES REPUBLIC OF CHINA
BURMA
SIAM
INDO CHINA
VIETNAM
TAIWAN
LUZON
PHILIPPINES
MINDANAO
BORNEO
CELEBES
SUMATRA
JAVA
BALI
Timor
Bonin
Volcano
Midway Isl.
Wake
Bikini
Marshall
Caroline Isl
Palmyra
Washington
Gilbert Islands
Canton
Phoenix Islands
Ellice Isl.
Solomon
New Hebrides
Fiji Isl.
Samoa Isl.
Tonga
Friendly Islands
Vitu
Palmerston
Cook Isl.
Caroline
Marquesas
Society Islands
Tahiti
Austral Islands
Pitcairn Isl.
Kermadec
Chatham Islands
NORTHERN TERRITORY
WESTERN AUSTRALIA
SOUTH AUSTRALIA
NEW SOUTH WALES
VICTORIA
TASMANIA
NOUMEA
New Caledonia
SUVA
TONGATABU
RAROTONGA
PAPEETE
DARWIN
CAIRNS
ATHERTON
LONGREACH
ROCKHAMPTON
GYMPIE
BRISBANE
SOUTH PORT
HUNTER
SYDNEY
CANBERRA
LITHGOW
BROKEN HILL
PORT PIRIE
RIVERINA
ADELAIDE
P LINCOLN
ALBANY
GERALDTON
PERTH
SPRINGS
DARL DOWNS
MELBOURNE
LYNDHURST
SHEPPARTON
HOBART
AUCKLAND
HAMILTON
NEW PLYMOUTH
WANGANUI
ROTORUA
GISBORNE
NAPIER
PALMERSTON
WELLINGTON
NELSON
GREYMOUTH
CHRISTCHURCH
TIMARU
DUNEDIN
INVERCAGILL
JOHNSTON
KAUAI
OAHU
Honolulu
WAILUKU
KAPIOLANI
Hawaii
MARIANA
GUAM
PALAU
SAIGON
DALAT
PHNOM-PENH
BANGKOK
RANGOON
HANOI
VIENTIANE
HUE
MACAO
CANTON
HONGKONG
TAIPEI
NANKING
SHANGHAI
CHUNGKING
FUKIEN
SIANG KWEICHOW
HUNAN
YUNNAN
RYU KYU
S. FERNANDO
MANILA
DUMAGUETE CITY
LEYTE
CEBU
ILOILO
BACOLOD
NEGROS
MARAWI CITY
COTABATO
DAVAO
JESSELLTON
BRUNEI
SARAWAK
MENADO
TERNATE
SORONG
PONTIANAK
BANDJARMASSIN
MAKASSAR
AMBON
BIAK
P. MORESBY
HONIARA
SEMARANG
SURAKARTA
SURABAJA
DJEMBER
DENPASAR
DJAKARTA
BANDUNG
JOGJAKARTA
MADIUN
KOTA RADJA
PENANG
KUALA-LUMPUR
MALACCA
SINGAPORE
MEDAN
PADANG
PALEMBANG
105°
120°
135°
150°
165°
180°
165°
150°
135°
30°
15°
0°
45°
60°
20
22
24
2
HAG SB

Australia

VLY25:
25675 kc/s 11.68 m, 25820 kc/s 11.62 m.
SERVICES: I: So., So.East, So.We. Asia – II: Ea. Asia, No. Pacific Islands - III: So. Pacific Islands – IV: Mid-Pacific Islands – V: British Isles and Europe – VI: No. America (Ea.) – VII: No. America (We.) – VIII: Africa.

		kc/s
ENGLISH		
I	22.14–00.15	21540, 15210
	00.15–00.30	21540, 17840, 15320
	00.30–06.00	21540, 17840
	06.00–07.30	21540, 17840, 15160
	07.30–09.15	21540, 15160
	09.15–09.45	15160
	09.59–13.00	9580
	13.00–13.29	11740, 9580, 7220
	13.29–14.30	11760, 9580
	14.30–15.00	11760, 11740, 9580, 7220
	15.00–17.30	11740, 9580, 7220
	02.29–07.30	21600(Sat.only)
INDONESIAN:		kc/s
I	06.00–07.00	21540, 17840, 15160
	09.29–11.00	11740, 7220
	23.15–00.15	17840, 15320
II	07.44–10.00	11760
	10.00–12.00	15160, 11760
	12.00–14.00	15160
	20.59–23.00	15240
III	06.00–09.15	11710[3]
	20.00–22.00	11840
IV	06.00–09.45	11810
	20.00–22.00	15315
V	06.00–07.30[1]	11710
	07.44–09.00[2]	11710[3]
VI	12.14–13.15	11810
VII	15.14–15.15	11810
VIII	04.29–05.45	21680
FRENCH:		
I	23.15–00.15	17840, 15320
III	23.15–00.15	21680
IV	00.25–01.30	17710, 15160
MANDARIN:		kc/s
I/II	11.00–13.00	11740, 7220
THAI:		
	13.29–14.30	11740, 7220

[1] April–September. [2] October–March. [3] Alternate 9 mc/s may be used Dec./Jan.
Radio Australia frequencies are subject to alteration, and the details of any proposed changes are given in the transmissions concerned for three days before becoming effective and in "Transmission Parade" and "DX-ers Calling".

FIXED PROGRAMMES in English:
N.: 00.15, 02.30, 04.00, 05.00, 05.15, 07.00, (08.30[2]), 09.00, 10.30 Dictation, 11.00, 12.00, (12.15, 12.45[2]), 13.00, 14.00, 15.15, 16.15, 17.15, 20.00, 21.00, 21.45, 22.45, 23.30. – **MAILBAGS:** Pacific/Asia/Africa Edition: Sat. 21.15. Sun.: 00.45, 04.45, 11.30, 16.45. British Isles/European Edition: 06.45[1], 08.15[2]. No. American Edition: 12.30, 15.30. **N. COMMENTARY:** Mo.–Fri.: 07.10, 08.40[2], 09.10, 11.10, 13.10, 14.10, 16.25. – **REQUEST PRGR's: "Listeners Choice":** Sun. 11.15. Sat. 14.10. Sun.–Fri. 14.30. **"Music by Request":** 23.40. **"For Ships at Sea":** Sat. 08.00. – **SPORT:** Results: Mo.–Sat. 08.30. Descriptions and results of major sporting events in Australia are broadcast on 21600 kc/s every Sat. 02.29–07.30. – **STOCK EXCHANGE REPORT:** Fri.: 08.45, 15.00. – **DX PROGRAMME:** Sat. 22.00. Sun.: 07.15[1], 08.45[2], 13.00, 16.00. – **NATIONAL MUSIC:** Music by Australian artists is broadcast regularly in all transmissions. – **PRGR. PREVIEWS** A prgr. summary is given at the start of each daily transmission. A preview of prgr.'s is given three minutes before the close of transmissions.

FIXED PROGRAMMES in French, Indonesian, Thai, Mandarin:
FRENCH: N.: 23.30, 00.45. – **N. Commentary:** Tues.–Sat.: 23.42, 00.57. – **Mailbag:** Sun.: 00.00, 01.00.
INDONESIAN: N.: 10.30, 22.45. – **N. Commentary:** Mo.–Fri. 10.42. – **Mailbag:** Sun.: 06.30, 10.00. – **"English Lessons for Indonesians":** Tues., Thurs.: 06.30, 10.00, 13.30.
MANDARIN: N.: 12.15, 12.45. – **N. Commentary:** Mo.–Fri. 12.27. – **Mailbag:** Sun. 12.00.
THAI: N.: 14.00. – **N. Commentary:** Mo.–Fri. 14.15. – **Mailbag:** Sun. 13.45.
ANN.: "This is Radio Australia transmitting the Overseas Service from the Melbourne studios of the A.B.C." – "You are tuned to R. Australia, the Overseas Service of the A.B.C." Transmitter call-signs, freq's and wavelengths are given at frequent intervals.
TUNING AND INT.-SIG.: Music Box playing "Waltzing Matilda" for five minutes preceding transmissions. – Prgr. commence with the Melbourne Post Office Clock chimes and the laugh of the Kookaburra, – V. Listener's reports are welcomed and should cover at least 15 min. prgr.-reception data. All correct reports are confirmed by QSL-card. – **PUB.:** A 36-page prgr.-booklet is available free upon application to "R. Australia".

PRIVATELY OWNED COMMERCIAL BROADCASTING STATIONS –

Associated in a body called: **The Australian Federation of Commercial Broadcasting Stations: Adr.:** 47 York Street, Sydney. – **L.P.:** Exec. Officer: A. S. Cowan. Gen. Secr.: M. Baker. – **The Australian Broadcasting Control Board** is a Go. Authority responsible for the planning of the broadcasting sce.'s, ensuring that technical equipment and prgr. sce.'s are of adequate standards and determining power, frequency and periods of operation of stations.
Addr.: 497 Collins Str, Melbourne, C.1. Cable: Conboard, Melbourne.
L.P.: Chairman: R. G. Osborne. Members: R. B. Mair; R. A. Yeo; J. R. Darling (Part-time); R. M. White (Part-time); Secr.: J. O'Kelly. Dir. Tec.: D. McDonald. Dir. Prgr.: D. A. Jose.
2CH is controlled by the New South Wales Council of Churches; 2SM by the Roman Catholic Church; 5KA and 5AU by the Methodist Church.
Abbreviations: Amalg. = Amalgamated. Ass. = Associated. Me. = Melbourne. B. Casters = Broadcasters. Transc. = Transcontinental.

Call	kc/s	kW	D. Prgr.	Stations
NEW SOUTH WALES Call letter: 2...				
BH	660	0.2	20.30–13.00	R. Silver City, Broken Hill
KA	780	2/1	20.30–12.30	Trans. Broadc. Corp., Katoomba
GB	870	5	19.30–13.15	Broadc. St. 2GBPty, Sydney
LM	900	2/1	20.00–12.30	Richmond River Broadc., Lismore
XL	920	2/1	20.00–13.00	Cooma B. Casters
UE	950	5	24 hours	R. 2UE, Sydney
KM	980	2/1	20.00–12.30	R. Kempsey
GZ	990	2	20.00–13.30	Country Broadc. Sce., Orange
KY	1020	5	19.30–14.00	2KY Broadc. St., Sydney
CA	1050	2	20.00–13.00	Canberra B. Casters
RG	1070	2/1	20.30–12.30	2RG B. Casters, Griffith
MO	1080	1	20.00–12.30	2MO Gunnedah
[1]UW	1110	1	24 hours	Commonwealth Broadc. Corp., Sydney
AD	1130	2/1	20.00–12.30	New England B. Casters, Armidale
HD	1140	2	19.30–14.00	Airsales Broadc. Co., Newcastle
WG	1150	2	20.00–13.00	Rivirina Broadc. Co., Wagga
CH	1170	5	19.30–14.00	Amalg. Wireless, Sydney
NZ	1190	2	19.30–13.00	Northern B. Casters, Inverell
GF	1210	2/1	20.00–13.00	Grafton Broadc. Co.
DU	1250	2	19.45–13.30	Western B. Casters, Dubbo
[2]SM	1270	5	19.30–13.00	Broadc. St. 2SM, Sydney
TM	1300	2	20.00–13.30	Tamworth R. Development Co.
LF	1340	2	20.00–13.00	Young B. Casters, Young
NX	1360	2	19.30–13.00	Hunter B. Casters, Newcastle
LT	1370	0.5	20.00–12.30	Lithgow B. Casters
GN	1380	2	20.00–13.00	Goulbourn Broadc. Co.
PK	1400	2	20.00–13.00	Parkes Broadc. Co.
KO	1410	2	24 hours	R. 2KO, Newcastle
WL	1430	2	19.30–13.30	Wollongong Broadc.
MW	1440	2/1	20.00–12.30	Tweed R. & Broadc. Co., Murwillumbah
MG	1450	0.5	20.30–12.30	Medgee Broadc. Co.
NM	1460	0.5	19.30–13.00	as 2NX – 1360 kc/s
BE	1480	1	21.00–12.00	Station 2BE, Bega
AY	1490	2	20.00–13.30	Amalg. Wireless, Albury
BS	1500	2	20.00–13.30	Bathurst B. Casters
QN	1520	2	20.30–12.30	Southern Riverina B. Casters, Deniliq.
VM	1530	2/0.5	20.00–12.30	Moree Broadc. & Development Co.
RE	1560	2/0.5	20.00–12.30	Manning Valley Broadc., Taree
VICTORIA Call letter 3...				
UL	880	2/1	19.30–13.30	Ass. Broadc. Sce., Warragul
UZ	930	5	19.30–14.00	Nilsen's Broadc. Sce., Melbourne
BO	960	1	19.30–14.00	Amalg. Wireless, Bendigo
HA	1000	2	20.00–13.30	We. Province R., Hamilton
DB	1030	5	19.30–15.00	Herald Broadc. St., Melbourne
LK	1090	2	19.30–13.30	Herald Broadc. St., Melbourne
CS	1130	1	20.00–12.30	Colac Broadc. Co.
KZ	1180	5	20.00–13.30	3KZ Broadc. Co., Melbourne
YB	1210	1	20.00–13.30	Ass. Broadc. Sce., Warrnambool
TR	1240	2	19.00–14.00	Latrobe Valley & Gippsland B. Casters
SR	1260	2	19.30–13.30	Ass. Broadc. Sce., Shepparton
AW	1280	5	19.00–13.30	3AW Broadc. Co., Melbourne
BA	1320	1	20.00–14.00	Ballarat B. Casters
SH	1330	2	20.00–13.00	Central Murray B. Casters, Swanhill
GL	1350	1	20.00–13.00	Geelong Broadcasting
XY	1420	5	24 hours	Efftee B. Casters, Melbourne
CV	1440	1	20.00–13.00	C. Victorian B. Casters, Maryborough
MA	1470	2	20.30–12.30	Sunraysia B. Casters, Mildura
AK	1500	0.5	20.00–08.00	Melbourne B. Casters
NE	1600	2/1	20.00–13.00	Wangaratta Broadc. Co.
QUEENSLAND Call letter 4...				
KQ	690	2/1	24 hours	Broadc. St. 4KQ, Brisbane
TO	780	2/1	19.30–13.30	Amalg. Wireless, Townsville
GR	860	2	19.30–13.00	Gold R. Sce., Toowoomba
WK	880	2/1	20.00–12.30	Warwick Broadc. Co.
VL	920	1	20.30–12.30	Charleville Broadc. Co.
AY	960	2/1	20.00–13.30	Ayr B. Casters, Ayr.
RO	1000	2	20.00–13.30	Rockhampton Broadc. Co.
CA	1010	1	20.20–13.00	Amalg. Wireless, Cairns
IP	1010	1	20.00–12.30	Ipswich Broadc. Co.
SB	1060	2	20.00–12.30	South Burnett Broadc. Co., Kingaroy
LG	1100	2	20.00–04.00	C. Queensland Broadc. Corp.,
			07.00–12.00	Longreach
BC	1120	2	24 hours	Commonwealth Broadc. Co., Brisbane
MB	1160	2	20.00–12.30	Maryborough Broadc. Co.
AK	1220	2	19.00–13.00	Brisbane B. Casters
BK	1290	2		

Call	kc/s	kW	D. Prgr.	Stations
BU	1330	2	20.00–12.30	Bundaberg B. Casters
GY	1350	2/0.5	20.00–12.00	The Gympie Broadc. Co.
MK	1380	2	20.00–12.30	Mackay Broadc. Sce.
[5]BH	1390	2	19.00–13.15	B. Casters (Aust.), Brisbane
ZR	1480	2/1	20.30–12.30	Maranoa Broadc. Co., Roma
SOUTH AUSTRALIA Call letter 5...				
[4]RM	800	2	20.15–13.30	5KA Broadc. Co., Adelaide
DN	970	2	20.00–13.45	Hume B. Casters, Adelaide
[5]PI	1040	2	20.00–13.45	TheAdvertiserBroadc.Network,Adelaide
[4]KA	1200	2	24 hours	as 5RM
[5]AD	1310	2	20.00–13.45	as 5PI
[5]SE	1370	0.5	20.15–12.45	as 5PI
[4]AU	1450	2	20.15–13.30	as 5RM
[5]MU	1460	0.5	20.15–12.45	as 5PI
WESTERN AUSTRALIA Call letter 6...				
VA	780	2	22.30–05.00 / 09.00–14.00	Albany Broadcasters
KG	860	2	23.00–05.00 / 09.00–14.30	Whitfords Broadc. Network, Perth
PR	880	2	21.30–15.00	Nicholsons Broadc. Sce., Perth
BY	900	2	22.00–14.30	W.A.B. Casters, Perth
NA	920	2	22.00–15.00	Westland Broadc. Co.
TZ	960	2	22.00–14.15	as 6PR
AM	980	2	22.30–14.30	as 6KG
PM	1000	2	22.00–15.00	as 6KG
GE	1010	2	23.00–05.30	09.30–14.30 as 6KG
WB	1070	2	22.00–06.00	09.00–14.30 as 6BY
IX	1080	2	21.45–15.00	as 6BY
MD	1100	2	22.00–06.15	09.00–14.30 as 6BY
CI	1130	2	22.00–06.30	09.00–14.15 as 6PR
KY	1320	2	21.30–15.00	as 6NA
TASMANIA Call letter 7...				
SD	540	0.5	21.00–03.00	North East Tasmania R.
			06.30–12.15	B. Casters, Scottsdale
BU	560	0.5	20.30–12.30	Burnie Broadc. Sce.
QT	720	0.5	21.00–03.00	West Coast
			06.00–12.30	B. Casters, Queenstown
[6]HO	860	2	19.30–13.30	Comm. B. Casters, Hobart
AD	900	0.5	21.00–13.00	N. Tasmania B. Casters, Devonport
EX	1010	2	20.30–13.00	7EX Pty., Launceston
HT	1080	2	19.30–13.30	Metropolitan B. Casters, Hobart
LA	1100	2	20.00–13.00	Findlay&WillsBroadcasters,Launceston

[1] ADDR.: 365 Kent St., Sydney.

[2] ADDR.: Box 4092 G.P.O., Sydney. – L.P.: Gen. Mgr.: W. H. Stephenson. – D. Prgrs.: W. 19.30–13.00(Sat. 14.00). Sun. 22.00–13.00. N. (W. only): 19.55, 20.25, 20.55, 21.25, 21.55, 22.25, 00.45 (not Sat.), 02.30, 07.45, 09.00. – V. by QSL-card.

[3] ADDR.: 43 Adelaide St. Brisbane. – L.P.: Man. Dir.: V. F. Mitchell. Dir. Tec.: A. R. Judge. – Prgr.: W. 19.00–13.00 (Sat. 14.00) Sun. 20.00–13.00. – V. by QSL-card.

[4] ADDR.: 43 Franklin St., Adelaide. Cable: "FIVEKA". – L.P. Dir. Gen.: A. E. Vogt. – ANN.: "This is the voice of So.Australia: Stations 5KA–5AU and 5RM". – V. by QSL-card. R.p.

[5] ADDR.: Waymouth St., Adelaide. Cable: "FIVEAD". – Prgr.: 5AD-5PI: W. 20.00–13.45(Sat. 14.30). Sun. 22.15–13.15. – 5MU-5SE: W. 20.15–13.45(Sat.14.30). Sun. 22.15–13.15. ANN.: "This is the Advertiser Broadcasting Network 5AD Adelaide, 5PI Central, 5MU Eastern and 5SE So. Eastern Australia". – V. by QSL-card.

[6] ADDR.: G.P.O. Box 671, Hobart. – Cable: "Sevenho". – L.P.: Dir. Tec.: W. Morrison. – Prgr.: Sun.–Fri.: 20.00–13.00(Sat. 14.00). – ANN.: "Radio Hobart-7HO-Station of the Stars, Tasmanian key station of the Macquarie Broadcasting Service". – V. by letter especially when overseas listeners.

★ CANTON ISLAND ★

L.T.: GMT÷11 h. – L.: English.

RADIO STATION KIBS (The Hermit Crab Network)
(Non-profit, volunteerly operated, U.S. Govt. owned equipment).
ADDR.: F.A.A. Canton Island, Phoenix Group, S. Pacific; U.S.P.O. 06–50000. – L.P.: Dir. Gen.: J. V. Cox. Dir. Tec.: C. J. Miesel.
HOME SCE.: KIBS 1510 kc/s 199 m 0.025 kW: Tues.to Sun.: 00.00–10.00. Mo. 19.00–24.00. All prgr's recorded or taped.
ANN.: "Radio Station KIBS, The Hermit Crab Network, 1510 on your dial; Canton Island". – V. by letter. R.p. appreciated.

★ CHATHAM ISLANDS (N.Z. Territory) ★

L.T.: GMT+12¾h. - Pr.L.: English.

CHATHAM ISLANDS BROADCASTING SERVICE, Waitangi
HOME SCE.: ZLC 2196 kc/s 136.6 m 0.05 kW: D. 21.45. Local news, news on shipping and aircraft arrivals from New Zealand.

★ CHRISTMAS ISLAND (British) ★

L.T.: GMT÷9 h. – Pr.L.: English.

CHRISTMAS ISLAND BROADCASTING SERVICE (Pr.)
(Owned and operated by RAF officers. The station is run entirely by voluntary help).
ADDR.: R.A.F. Central Pacific, B.F.P.O. 170. – L.P.: Dir. of Broadc.: Flight-Lieutenant Sturgis. Senior Producer: V. Nagan.
HOME SCE. in English: 1450 kc/s 207 m 0.1 kW: Tues.–Fri. 03.55–07.30. Sat.: 03.55–07.30 & 22.15–01.45. Sun.: 03.55–08.00 & 21.30–02.00. Mo. 03.55–08.00. – N.: D. 06.00. – Request Prgr.: Sun. 05.00.
PUB.: Mid-Pacific Advertiser (weekly).

★ COOK ISLANDS (N.Z. Territory) ★

L.T.: GMT÷10½ h. – Pr.L.: English, Cook Isl. Maori. – Po.: 17.000 Rcvrs.: 400.

RADIO RAROTONGA (Go.)
ADDR.: Further Education Radio Service, Rarotonga. – L.P.: Dir. Prgr.: P. F. Henderson. Dir. Tec.: W. Scarborough.
HOME SCE.: ZK1ZA 4965 kc/s 60.42 m 0.35 kW: Thurs. 04.30–05.30 (N.: 05.10).
ANN.: "This is ZK1ZA Radio Rarotonga". – INT.-SIG.: Cook Islands Drum Beats. – V. by QSL-card.

★ FIJI (British) ★

L.T.: GMT+12 h. – Pr.L.: Fijian, Hindustani. – Po.: 361.038. – Rcvrs.: 20.000. – E.C.: A.C., 240/415 V., 50 c/s.

FIJI BROADCASTING COMMISSION (Independent Statutory Body, 50% comm., 50% cultural)
ADDR.: Broadcasting House, P.O. Box 334, Suva. – Cable: "Broadcom". – L.P.: Chairman: R. L. Munro, LLB. Mgr.: J. S. W. Stannage. Dir. Prgr.: G. H. King. Dir. Tec.: T. Agar.
HOME SCE.: W. 18.30–10.30(Sat. 11.00). Sun. 18.30–10.00.
VRH2 Suva 840 kc/s 357 m 0.5 kW – VRH3 Lautoka 890 kc/s 337.1 m 2.5 kW – VRH Suva 930 kc/s 322 m 2 kW – VRH4 Suva 3980 kc/s 75.38 m 0.5 kW (R. Fiji).
Simultaneously tr. in English, Fijian, Hindustani. – English: N.: D. 18.45*, 19.00 (BBC), 19.45, 20.00 (BBC), 21.15 (Sun. BBC), 24.00 (Sun. ABC), 01.15 (NZBS), 01.30*, 07.00 (BBC)*. – Wrp.: After N.*, 00.30, 09.15 (Sun. 09.00).
ANN.: "This is the Fiji Broadc. Commission". – INT.-SIG.: Beat of Fijian Lali (Log Drum). – V. by QSL-card, but not sought.

★ GILBERT and ELLICE ISLANDS ★ (British Colony)

L.T.: GMT+12 h. – Pr.L.: English, Gilbertese, Ellice. – Po.: 40.000. – Rcvrs.: 200. – E.C.: 240 V., D.C.

GILBERT AND ELLICE ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: Information Office, Tarawa, Gilbert Islands (via Melbourne, Australia). – Cable: Information, Tarawa. – L.P.: Information Officer, Chief Wireless Officer.
HOME SCE.: Sun. 04.30–05.15*. Fri. 07.30–09.30**. Radio Tarawa VTW 844 kc/s 355 m 0.05 kW – VSZ10 6050 kc/s 49.59 m 0.1 kW
* Gilbertese & Ellice on s.w. ** English on m.w.
ANN.: E.: "This is station VTW, Tarawa". – V. by letter. – F.PL.: 2.5 kW s.w. tr. at the end of 1960.

★ HAWAII (U. S. State) ★

L.T.: GMT÷10 h. – Pr. L.: English, Japanese, Filipino, Chinese. – Po.: 626.100. – Rcvrs.: 455.000. – E.C.: 120/208/240/480 V., A.C., 60 c/s.

VOICE OF AMERICA RADIO STATION IN HAWAII
ADDR.: Voice of America, Washington 25, D.C., USA.
STATIONS: Short Wave: Honolulu 100 kW: 09.00–16.30.
9650 kc/s 31.09 m – 11775 kc/s 25.45 m – 15150 kc/s 19.80 m
D. PRGR.: see USA.
09.00–09.30 English 10.00–10.30 English 11.30–12.00 Mandarin
09.30–10.00 Russian 11.00–11.30 English 12.00–16.30 English
ANN.: "This is the Voice of America Transmitter, Honolulu".
INT.-SIG.: Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". See USA. – V. by QSL-card.

PRIVATE STATIONS (Comm.)

	Call	kc/s	kW	network		Call	kc/s	kW	netwrok
1)	KMVI	550	1	KGU-NBS	9)	KAHU	920	1	Indep.
2)	KGMB	590	5	CBS	2)	KHBC	970	1	CBS
3)	KPOA	650	10	MBS	10)	KHVH	1040	5	Indep.
4)	KULA	690	10	Indep.	11)	KIPA	1110	1	KGU-NBS
5)	KGU	760	10	NBS	12)	KANI	1240	0.25	Indep.
6)	KIKI	830	0.25	Indep.	13)	KPOI	1380	5	Indep.
7)	KILA	850	1	MBS	14)	KTOH	1490	0.25	KGU-NBS
8)	KAIM	870	1	Indep.					

15) KUOH-FM 90.5 mc/s 0.01 kW Indep.
8) KAIM-FM 95.5 mc/s 1 kW Indep.
1) **Maui Publishing Co.**, P.O. Box 374, Wailuku, Maui. – **L.P.:** Gen. Mgr.: Ezra Crane. – **D.Prgr.:** 14.55–10.00. – **V.** by letter or QSL-card.
2) **Hawaiian Broadc. System**, 1534 Kapiolani Blvd., Honolulu. – **L.P.:** Pres., Gen. Mgr.: J. Howard Worrall. St. Mgr.: M. Wright. Chief Eng.: D. Hunter. – **D. Prgr.:** 15.15–09.45.
3) **R. Hawaii**, 575 Kamoku Str., Honolulu. – **L.P.:** Gen. Mgr.: F. Hollinger. Dir. Tec.: R. H. Lang. – **D. Prgr.:** 15.00–11.00. – **V.** by letter or QSL-card.
4) **Burnett Broadc. Co.**, P. O. Box 1479, Honolulu. – **L.P.:** Pres., Gen. Mgr.: J. Burnett. Dir. Tec.: R. T. Miyahira. – **D. Prgr.: English:** 15.00–10.00.
5) **Advertiser Publishing Co.**, 605 Kapiolani Blvd., Honolulu. – **L.P.:** Pres.: L. P. Thurston. Dir. Tec.: T. Shigetani. – **D. Prgr.:** 14.30–11.00.
6) **Kiki Ltd.**, 320 Ward St., Honolulu. – **L.P.:** Pres.: R. V. Howard. – **D. Prgr.:** 24 h.
7) **Island Broadc. Co.**, P.O. Box 1497, Naniloa Hotel, Hilo. – **D. Prgr.:** 15.00–10.00.
8) **Christian Broadc. Co.**, 1136–12th Avenue, Honolulu. – **L.P.:** Gen. Mgr.: C. Keur. Dir. Tec.: E. Fallert. – **D. Prgr.:** 15.00–09.00.
9) **Rural Broadc. Co.**, P. O. Box 1007, Waipahu, Oahu. – **L.P.:** Gen. Mgr.: H. E. Chu. Dir. Tec.: R. Pearson. D. 15.00–09.30.
10) **Kaiser-Hawaiian Village R.**, 1290 Ala Moana Blvd., Honolulu. – **L.P.:** Gen. Mgr.: R. Block. Dir. Tec.: E. Lindeman. – **D. Prgr.:** 15.00–11.00. **English: N., Wrp.:** on the h. and half h.
11) **Big Island Broadc. Co.**, 84 Mamo St., Hilo. – **L.P.:** Gen. Mgr.: A. H. Pollock. – **D. Prgr.:** 15.30–10.00.
12) **Windward Broadc. Co.**, P. O. Box 1163, Kailu, Oahu. – **L.P.:** Mgr.: J. Canright. Dir. Tec.: J. Ellington. – **D. Prgr.:** 15.00–10.00.
13) **South Pacific Broadc. Corp. Ltd.**, 1701 Ala Wai Blvd., Honolulu. – **L.P.:** Gen. Mgr.: R. H. Lee. – **D. Prgr.:** 15.00–10.00. **English.**
14) **Garden Island Publishing Co.**, P. O. Box 1748, Lihue, Hawaii. – **L.P.:** Gen. Mgr.: J. Fern. T. Eto. – **D. Prgr.:** 15.00–11.00.
15) **University of Hawaii**, Honolulu. – **L.P.:** Dir.: L. Steed.

★ MARIANAS ISLANDS (U.S. Territory) ★

L.T.: GMT+10 h. – **L.:** English, Tagalog, Chamorro. – **Po.:** 37.000. – **Rcvrs.:** 2.500. – **E.C.:** 110/220 V, A.C., 60 c/s.

RADIO GUAM (Pr. Comm.)
ADDR.: P. O. Box 68, Agana, Guam. – **Cable:** "Kuam". – **L.P.:** Pres. & Gen. Mgr.: H. M. Engel. Mgr.: J. P. Barton.
HOME SCE.: KUAM 610 kc/s 1 kW. – **English:** 20.00 (Sun. 21.00)–14.00 (Sat. 15.00). **N.:** Every h. on the h. – **ANN.:** "Kuam Agana, Guam". – **V.** by letter. – **PUB.:** Prgr.sched. on request.

★ MARSHALL ISLANDS (U.S. Trust Terr.) ★

L.T.: GMT+12 h. – **L.:** English.
STATION WSZO (operated by the Majuri Trust Territory).
1500 kc/s 200 m 0.2 kW; D. approx. 02.00–04.00.
D. Prgrs. in Marshallese: Boat arrivals, departures, initeraries, and local news, together with educational items.
ARMED FORCES RADIO & TV SCE. (Enivetok and Kwajalein): see USA.

★ NEW CALEDONIA (French) ★

L.T.: GMT+11 h. **Pr. L.:** French. – **Po.:** 70.000. – **Rcvrs.:** 5.000. – **E.C.:** 110/120 V, A.C., 50 c/s.

RADIO NOUMEA (Go.)
ADDR.: B. P. 327, Noumea. – **L.P.:** D r. R. le Leizour. Dir. Adm.: Mlle M. Charbonneaux.
HOME SERVICE:
1400 kc/s 214 m 1 kW \W.: 00.00–02.00, 07.00–13.00, 19.00–20.00.
6035 kc/s 49.71 m 4 kW /Sun.: 21.00–02.00, 07.00–10.30.
N.: 00.55 (local), 01.00, 08.00. – **ANN.:** "Ici Nouméa, Radiodiffusion Télévision Française." – **V.** by QSL-card. – **F.PL.:** From 1.1.1960 special prgrs. in French & English (daily).

★ NEW GUINEA (Netherlands) ★

L.T.: GMT+ 9½ h. – **Pr.L.:** Dutch, Malayan.

RADIO OMROEP NIEUW GUINEA (Go.)
ADDR.: P.O. Box 505, Biak. – **L.P.:** Mgr.: Vacancy. Dir. Prgr., Adm.: D. van Os. Dir. Tec.: W. de Vries.
HOME SCE. in Dutch, Malayan. 5 kW
5045 kc/s 59.46 m: 09.00–12.30
7190 – 41.72 – : Mo.-Fri.: 00.30–01.30. Sat. 03.00–05.00. Sun. 23.30–04.30.
ANN.: "Hier is Biak, Radio Omroep Nieuw-Guinea". – **INT.-SIG.:** "Wij leven vrij, wij leven blij"; sol do sol mi do mi sol sol sol. – **V.** by QSL-card. If possible return postage. – **F.PL.:** Two powerful tr's; lowpowered relay st's.

RADIO SORONG (Pr.)
ADDR.: Dutch New Guinea Petroleum Company, Sorong. – **HOME SCE.:** 3395 kc/s 88.37 m 0.5 kW: W. exc. Wed., Sat.: 09.30–12.00. Sun.: 01.00–03.30, 09.30–12.00. – **ANN.:** "Hier R. Sorong". – **INT.-SIG.:** "Swedish Rhapsody". – **V.** by letter.

★ NEW ZEALAND ★

L.T.: GMT+12 h. – **Pr.L.:** English, Maori. – **Po.:** 2.326.129. – **Rcvrs.:** 567.258. – **E.C.:** 220/240 V., A.C., 50 c/s.

NEW ZEALAND BROADCASTING SERVICE (Go.)
ADDR.: The Director, New Zealand Broadcasting Service, P.O. Box 98, Wellington. – **Cable:** "Broadserv.". – **L.P.:** Dir.: J. H. E. Schroder. Chief Engineer: W. L. Harrison.
HOME SERVICE in English:

		kc/s	m	kW	h. of tr.
Wellington	2YA	570	526	60	17.00–11.20
Wellington	2YC	660	455	60	05.00–11.00
Christchurch	3YA	690	434	10	18.00–11.20
Invercargill	4YZ	720	416	5	19.00–11.20
Auckland	1YA	760	395	10	18.00–11.20
Dunedin	4YA	780	384	10	18.00–11.20
Rotorua	1YZ	800	375	10	19.00–10.30
Invercargill	4ZA	820	366	10	18.00–10.30
Masterton	2XB	840	357	2	05.30–10.30
Napier	2YZ	860	349	5	19.00–10.30
Auckland	1YC	880	341	10	05.00–11.00
Dunedin	4YC	900	333	10	05.00–11.00
Greymouth	3YZ	920	326	10	19.00–10.30
Palmerston Nth	2ZA	940	319	2	18.00–10.30
Christchurch	3YC	960	312	10	05.00–11.00
Whangarei	1XN	970	309	2	18.00–10.30
Wellington	2ZB	980	306	10	18.00–12.00
Gisborne	2XG	1010	297	2	18.00–10.30
Dunedin	4ZB	1040	288	10	18.00–12.00
Auckland	1ZB	1070	280	10	18.00–12.00
Christchurch	3ZB	1100	273	10	18.00–12.00
Wellington	2YD	1130	265	2	07.00–10.00
Timaru	3XC	1160	258	2	18.00–10.30
Gisborne	2XM	1180	254	0.09	21.15–10.00
Wanganui	2XA	1200	250	2	18.00–10.30
Auckland	1YD	1250	240	2	05.00–10.00
Hawkes Bay	2ZC	1280	234	2	18.00–10.30
Hamilton	1XH	1310	229	2	18.00–10.30
Nelson	2XN	1340	224	2	18.00–10.30
New Plymouth	2XP	1370	219	2	18.00–10.30
Wellington	2YX	1400	214	1	07.30–10.30
Dunedin	4XD	1430	210	0.06	06.00–10.30
Rotorua	1ZC	1520			

N.: D. (BBC): 18.00, 19.00, 20.00, 06.30, 11.00, 09.03 (NZBS). – **N. in Maori:** Sun. 06.00. – **Wrp.:** D.: 18.15, 19.15, 21.00, 00.30, 06.25, 09.00. – **Religious:** W. (in N.Z.): 22.10. Sun (in N.Z.): 23.00, 07.00. – **Time Sig.:** D.: 18.00, 19.00, 20.00, 23.00, 00.30, 04.00, 06.30, 07.00, 10.00, 11.00.
FOREIGN SERVICE: Radio New Zealand 7.5 kW.
ADDR.: The Director, Radio New Zealand, P.O. Box 2396, Wellington. – **Cable:** "Natbroadcast". – **L.P.:** St. Mgr.: A. L. Curry. Prgr. Officer: K. S. Avery.

ZL20	6020	49.83	ZL8	9620	31.19	ZL5	17770	16.88
ZL7	6080	49.34	ZL3	11780	25.47	ZL14	17820	16.84
ZL11	6130	48.94	ZL9	11810	25.40	ZL15	21480	13.97
ZL12	7220	41.55	ZL19	11830	25.36	ZL16	21580	13.90
ZL13	7290	41.15	ZL10	15220	19.71	ZL6	25800	11.63
ZL18	9520	31.51	ZL4	15280	19.63	ZL17	26000	11.54
ZL2	9540	31.45						

Two frequencies are used simultaneously, and as the prgr. sce. is intended primarily for Australia and the Pacific Islands, the present aerials are beamed in those two directions.
To Australia:
D. 20.00–05.45 Home Sce. prgr.
D.* 09.00–11.45 Special prgr. for Australian listeners.
To Pacific Islands:
D. 17.00–05.45 Home Sce. prgr.
D.* 06.00–08.45 Special prgr. for Pacific Islands listeners.
* On 2 freq. simultaneously.
New Zealand News: Mo.-Fri. 00.33. Mo.-Sat.: 07.30, 08.40, 09.30. Sun. 09.03. – **Religious:** W. (in N.Z.): 22.10. Sun. (in N.Z.): 23.00. – **National Music:** Thurs.: 07.45, 11.15. Sun.: 06.45, 10.00. – **DX Programmes:** 1st Wed. in month: 08.15, 10.30. – **Mbg.:** Fri.: 07.00, 10.00. – **Prgr. Previews:** Mo.-Fri.: 00.50. D.: 06.10, 07.40, 08.40, 09.00, 09.40, 11.40.

ANN.: "This is New Zealand Calling". – INT.-SIG.: Call of the b bird (at 5 second intervals). – V. by QSL-card posted by sea mail. – PUB.: "The N.Z. Listener" (Home Sce. only) sub. 30 sh. (N.Z.) yearly. R.N.Z. Prgr. sched. (Free to overseas listeners on request).

★ NORFOLK ISLAND (Austral. Terr.) ★

L.T.: GMT+11½ h. – Pr.L.: English. – Po.: 1000.

NORFOLK ISLAND BROADCASTING SERVICE (Go.)
ADDR.: Civil Aviation, Norfolk Island. 1500 kc/s 200 m 0.07 kW

★ SAMOA ★

L.T.: GMT÷11 h. – Pr.L.: English, Samoan. – Po.: 118.000. – Rcvrs.: 4000. – E.C.: 110/220 V., A.C., 50 c/s.

WESTERN SAMOA (N.Z. Trust Territory)
ADDR.: Broadcasting Department, Apia, Western Samoa. – Cable: "Voxpac". – L.P.: Dir.: C. H. Turner. Dir. Tec.: J. K. Brown.
HOME SCE.: 2 AP Apia: 1420 kc/s 221.3 m 2 kW.
English: 05.30–07.00. Samoan: 07.00–09.00. – V. by QSL-card.

EASTERN SAMOA (U.S. Territory)
RADIOSTATION WVUV
ADDR.: Office of Information and Adult Education, Pago Pago.
HOME SCE.: English, Samoan: WVUV 1120 kc/s 267.8 m 0.25 kW. Mo. to Fri.: 20.00–22.00, 07.00–10.00. Fri. 20.00–Sat. 07.00. From Sat. 23.00–Sun. 03.00. – ANN.: E.: "This is Station WVUV, Pago Pago, American Samoa". – INT.-SIG.: St. identification, time break, and theme songs every 15 mins. from Mo. to Fri. – V. by letter. – PUB.: Weekly information paper and a daily news sheet in English.

★ SOLOMON ISLANDS (British) ★

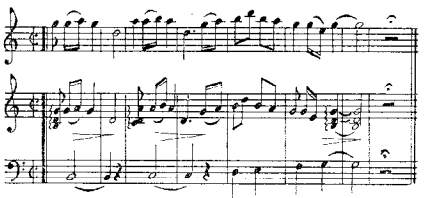
L.T.: GMT+11 h. – Pr.L.: English, Pidgin-English, Vernaculars. – Po.: 112.000. – Rcvrs.: 500. – E.C.: 240 V., A.C., 50 c/s.

SOLOMON ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 115, Honiara. – Cable: Broadcasts. – L.P.: Broadc. Officer: R. F. Calvert. Broadc. Eng.: R. C. Evens. Broadc. Officer: W. Bennett.
HOME SCE.: Mo.-Fri. 08.00–10.30. Sat.-Sun. 09.00–10.30.
VQO 1030 kc/s 291 m 0.66 kW – VQO2 5960 kc/s 50.34 m 5 kW d.
English: W. 09.00–10.30. N.: W. 09.30. Pidgin-English: Mo.-Fri. 08.00–09.00. N.: Mo.-Fri. 08.15.
ANN.: "This is the Solomon Islands Broadcasting Sce. VQO and sw.-tr . VQO2". – V. by QSL-card. Report must contain sufficient detail to establish authenticity.

★ TAHITI (French) ★

L.T.: GMT÷10 h. – Pr.L.: French, Tahitian, Maori. – Po.: 75.000. – Rcvrs.: 10.000. – E.C.: 110 V., A.C., 60 c/s.

RADIO TAHITI (Go.)
ADDR.: Rue Dumont d'Urville 410, Papeete. – L.P.: Directeur Radio Tahiti: M. Espinasse. – HOME SCE.: 6135 kc/s 48.90 m 4 kW. 21.45–23.00, 03.30–07.30. – French: 05.00–07.30, 22.00–23.00. – Tahitian: 03.30–05.00, 21.45–22.00.
ANN.: "Ici Radio Tahiti, Poste National Francais". – INT.-SIG.: Tahitian flute (vivo) and Drums.



NORTH AMERICA
incl. Mexico and Puerto Rico

★ CANADA ★

L.T.: See table: World Time. – Pr.L.: English, French. – Po.: 17.500.000. – Rcvrs.: 7.600.000 (of which 1.530.000 motor cars). – E.C.: 110/220 V., A.C., 60 c/s.

CANADIAN BROADCASTING CORPORAT ON INTERNATIONAL SERVICE (Publicly owned)
ADDR.: Canadian Broadcasting Corporation, International Service, P.O. Box 6000, Montreal, Canada. – Cable: "Intrad".

L.P.: Dir.: C. R. Delafield. Supervisor of Sections: A. L. Pidgeon. Supervisor of Eng. Sce.: J. M. Laporte. Supervisor of Inf. Sce.: H. Shane.
STATIONS: All international s.w. broadcasts from Canada are directed by CBC International Service, which is owned by the people of Canada. All prgrs. are produced in Montreal and beamed from two 50 kW transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

Call	kc/s	m	Call	kc/s	m	Call	kc/s	m
CKNA	5970	50.25	CHFO	9740	30.80	CKBR	15275	19.64
CHAY	5990	50.08	CKXA	11705	25.63	CKCS	15320	19.58
CKRZ	6060	49.50	CHOL	11720	25.60	CHSB	17710	16.94
CKOB	6090	49.26	CKRA	11760	25.51	CHRX	17735	16.92
CHAC	6160	48.70	CKEX	11900	25.21	CKNC	17820	16.84
CKLP	9585	31.30	CKNK	11945	25.12	CHYS	17865	16.80
CHLS	9610	31.22	CKUS	15105	19.86	CKRP	21600	13.89
CKLO	9630	31.15	CKCX	15190	19.75	CHLA	21710	13.82
CHLR	9710	30.90	CKSR	15255	19.67			

EUROPEAN SERVICE:
11.25–14.00 16–13 m.b.
14.00–21.30 19–16 m.b.
Daily Programmes:
11.25–11.45 Czech.
11.45–12.45 For Canadian Forces in Europe (Mo. to Fri.).
12.45–13.00 Program Announcements (Mo. to Fri. only).
11.45–12.00 Program Announcements (Sat. only).
12.00–12.30 For Canadian Forces in Europe (Sat. only).
12.30–13.00 Concert (Sat. only).
12.00–13.00 Forces rel. (Sun. only).
13.00–13.15 Program for Europe.
13.15–13.30 Polish.
13.30–14.00 Music.
14.15–14.30 Russian.
14.30–15.00 Ukrainian.
15.00–16.00 Programs for Europe.
16.00–16.15 Hungarian.
16.15–16.30 Slovak.
16.30–17.00 Czech.
17.00–17.45 Polish.
17.45–18.00 News in **English** for ships at sea.
18.00–18.30 **German.**
18.30–19.00 Czech.
19.00–19.15 Swedish (Mo. to Fri.).
19.15–19.30 Norwegian (Mo. to Fri.).
19.30–19.45 Danish (Mo. to Fri.).
19.45–20.00 Dutch (Mo. to Fri.).
19.00–19.30 Russian (Sat. and Sun. only).
19.30–20.00 Ukrainian (Sat. and Sun. only).
20.00–20.30 **French.**
20.30–21.00 **English** (Mo. to Fri.).
20.30–21.15 **English** (Sat. and Sun. only).
21.00–21.15 Italian (Mo. to Fri.).
21.15–21.30 Russian.

CARIBBEAN SERVICE:
21.55–22.35 **English** 13 m.b.

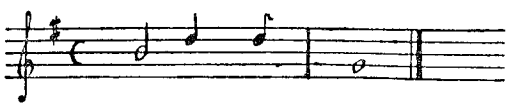
LATIN AMERICAN SERVICE:
22.55–00.35 25–19 m.b.
D. Prgrs.: 22.55–23.45 **Portuguese.** – 23.45–00.35 **Spanish.**

AMERICAN AND ANTILLES SERVICE:
00.55–01.45 **English** 31–19 m.b.
01.45–02.25 **French** 31–19 m.b.

NORTHERN CANADA SERVICE:
02.55–04.05 **English** 31–25 m.b.

AUSTRALASIAN SERVICE:
08.25–09.20 **English** 31–25 m.b.

ANN.: "This is the International Service of the Canadian Broadcasting Corporation". "Ici Radio Canada". "This is Canada".
INT.-SIG.: First four notes of the National Anthem "O Canada"



MESSAGE TO LISTENERS: The CBC International Service greets shortwave listeners everywhere, and welcomes reports, queries, and comments on reception and programs. Please write to: Box 6000, Montreal. – V. by letter or QSL-card. – PUB.: CBC-Radio-Canada prgr. sched. (ill.) published seven times a year and sent free on request.

CBC HOME SERVICE, NATIONAL SERVICE (Publicly owned)
Abbreviations: Nf=Newfoundland. NS=Nova Scotia. PEI=Prince Edward Isl. NB=N. Brunswick. P=Pacific. Qu=Quebec. O=Ontario. M=Manitoba. Sa=Saskatchewan. Al=Alberta. BC=British Columbia. W=Winnipeg. Pr=Province. Prince R=Prince Rupert. NWT=No.W. Territories.

Canada

ADDR.: Canadian Broadcasting Corporation, 140 Wellington Street, Ottawa, O (Head Office). **Locations of reg. offices:** T. A. Building, St. John's, Nf. (Nf. Regional) – 27 College Street, Halifax, NS (Maritime Region) – 1425 Dorchester Street West, Montreal, Qu (Qu. Region) – 354 Jarvis Street, Toronto, O. (O. Region) – 541 Portage Ave. W., M. (Prairie Region) – 701 Hornby Str. Vancouver (B.C. Region) – **Ottawa:** Ottawa Area. – **Ottawa:** Northern and Armed Forces. – **London Office:** The Langham, Portland Place, London W.1., England. – **New York Offices:** c/o United Nations, New York, N.Y., USA. – **Paris Office:** 38, Ave. Friedland, Paris.
L.P.: Head Office: Pres.: J. A. Ouimet. Vice Pres.: E. L. Bushnell. Ass. to the Pres.: R. P. Landry. Vice Pres., Prgr. and Sales: Pres. acting in this post. Vice Pres., Adm. and Finance: Marcel Carter. Vice Pres., Corporate Affairs: R. C Fraser. Vice Pres., Engineering and Operations: J. P. Gilmore. Gen. Mgr., Reg. Broadc.: Charles Jennings. Gen. Mgr., English networks: H. G. Walker. Gen. Mgr., French networks: Marcel Ouimet. Dir. of Eng.: W. G. Richardson. Coordinator of Information Sce's: W. T. Armstrong.

ENGLISH NETWORK:
Medium Waves:

1)	CBK	540 50	Watrous-Sa	10)	CBT	990 1	Gr. Falls-Nf
2)	CBN	640 10	St. John's-Nf	11)	CBW	990 50	Winnipeg-M
3)	CBU	690 10	Vanc.-BC	12)	CBX	1010 50	Edmonton-Al
4)	CBL	740 50	Toronto-O	13)	CBA	1070 50	Sackvil.-NB
5)	CBXA	740 0.25	Edmonton-Al	14)	CBI	1140 5	Sydney-NS
6)	CBY	790 1	Corner B.-Nf	15)	CFPR	1240 0.25	Prince R., BC
7)	CJBC	860 50	Toronto-O	16)	CBH	1330 0.1	Halifax-NS
8)	CBO	910 5	Ottawa-O	17)	CBG	1450 0.25	Gander-Nf
9)	CBM	940 50	Montr.-Qu	18)	CBE	1550 10	Windsor-O

NORTHERN SERVICE

1)	CHFC	1230	0.25	Churchill, Man.
2)	CBXH	1230	0.1	Fort Smith, NWT
3)	CFHR	1230	0.1	Hay River, NWT
4)	CHAK	1230	0.1	Aklavik, NWT
5)	CFYT	1230	0.1	Dawson City, Yukon
6)	CFHW	1240	0.25	Whitehorse, Yukon
7)	CFYK	1340	0.15	Yellowknife, NWT
8)	CFGB	1340	0.25	Goose Bay, Labrador

FM:

5)	CBC	99.1	11.90	Toronto-O
4)	CBM	100.7	3.86	Montr.-Qu
12)	CBO	103.3	0.38	Ottawa-O

Short Waves:

11)	CBU	105.7	1.40	Vancouver-BC
1)	CBNX	5970	00.3	St. John's*
11)	CBUX	6160	0.5	Vancouver**

* Relay CBN ** Relay CBU

1. **Addr.:** T. A. Bldg. St. John's, P. O. Box E 5372, St. John's Nf. – **D. Prgr.:** W. 11.00–04.15. – V. by QSL-card.
2. **Addr.:** 247 Charlotte Str., Sydney, NS. – **D. Prgr.:** W. 11.00–04.15. – V. by QSL-card.
3. **Addr.:** United Services Building, 100 Sackville Str., Halifax, NS.
4. **Addr.:** Radio Canada Building, 1425 Dorchester Str., Montreal, Qu. – **D. Prgr.:** W. 12.00–05.00. Sun. 13.00–05.00.
5. **Addr.:** 354 Jarvis Str., Toronto 5, O. – **D. Prgr.:** W. 12.00–05.00. Sun. 13.00–05.00.
6. **Addr.:** 354 Jarvis Str., Toronto 5, O. – **D. Prgr.:** W. 12.45–05.00. Sun. 13.45–05.00.
7. **Addr.:** Security Building, Windsor, O. – **D. Prgr.:** W. 12.45–05.30. Sun. 13.00–05.30.
8. **Addr.:** P. O. Box 160, Winnipeg, M. – **D. Prgr.:** W. 12.45–06.00. Sun. 14.45–06.00.
9. **Addr.:** 1840 McInryrest Regina, P. O. Box 290, Regina, Sa. – **D. Prgr.:** W. 13.45–08.00. Sun. 15.45–08.00.
10. **Addr.:** MacDonald Hotel, Edmonton, A. – **D. Prgr.:** 13.45–08.00.
11. **Addr.:** 701 Hornby Str., Vancouver, BC. – **D. Prgr.:** W. 14.45–08.00. Sun. 15.55–08.00. – **N.:** 15.30 (W), 16.00, 19.00 (Sun.), 20.15 (W), 23.00 (Sun.), 01.45 (W), 03.00, 06.00, 07.57.
12. **Addr.:** Chateau Laurier Hotel, Ottawa, O.

FRENCH NETWORK:
CBF 690 kc 50 kW Montreal CBV 980 kc 5 kW Quebec
CBJ 1580 kc 10 kW Chicoutimi CBAF 1300 kc 5 kW Moncton
FM: CBF 95.1 mc/s 3.86 kW Montreal.
CBAF (Basic St.): Addr.: Assumption Bldg., 232 St. George Str., Moncton, NB. – **D. Prgr.:** 11.00–04.30.
PUB.: "CBC Times" (English) (Eastern, Prairie, and Pacific Coast editions) and "La Semaine á Radio-Canada" (French); weekly.

PRIVATELY OWNED COMMERCIAL STATIONS

CANADIAN ASSOCIATION OF RADIO AND TELEVISION BROADCASTERS: Head Office, 108, Sparks Str., Ottawa 4.
Medium Waves: 104 less 5 kW stations not mentioned. **FM:** 27 stations.

	Call	kc/s	kW
1)	CHLN	550	5d
2)	CFNB	550	5
3)	CFRA	560	5d[1])
4)	CJKL	560	5d
5)	CJFX	580	5d
6)	CKEY	580	5/1d
7)	CKPR	580	5/1[1])
8)	CKY	580	5d
9)	VOCM	590	10/1
10)	CFCF	600	5d[1])
11)	CFQC	600	5d
12)	CJOR	600	5d
13)	CHNC	610	5d
14)	CKTB	610	5d
15)	CKCK	620	5d
16)	CFCY	630	5d
17)	CKRC	630	5d
18)	CHLT	630	5d
19)	CHFA	680	5d
20)	CJOB	680	10/2.5
21)	CKGB	680	5d[1])
22)	CFRG	710	5
23)	CKAC	730	50d
24)	CKLG	730	10d
25)	CKSO	790	5d
26)	CHAB	800	10d
27)	CHRC	800	10d[1])
28)	CJAD	800	10d
29)	CKLW	800	50d[1])
30)	CKVL	850	10d[1])
31)	CHML	900	5d
32)	CJBR	900	10d[1])
33)	CJVI	900	10d
34)	CKBI	900	10d
36)	CFCJ	910	10/1
37)	CJCH	920	10/5d
38)	CFBC	930	5d
39)	CJCA	930	10/5d[1])
40)	CJON	930	10d
41)	CJGX	940	10/1
42)	CKBB	950	5/2.5d
43)	CFAC	960	10d
44)	CHNS	°960	10d
45)	CKWS	960	5d[1])
46)	CKCH	970	5d
47)	CFPL	980	10/5d[1])
48)	CHEX	980	5d
49)	CKRM	980	5d
50)	CKNW	980	5d
51)	CFRB	°1010	50d
52)	CFGP	1050	10d
53)	CHUM	1050	5/2.5d
54)	CKSB	1050	10d
55)	CFCN	°1060	10d
56)	CHOK	1070	5/1d
57)	CHED	1080	10/1d
58)	CKWX	°1130	50d
59)	CHSJ	1150	5d
60)	CKOC	1150	5d
61)	CKX	1150	5/1
62)	CJOC	1220	10/5d
63)	CKCW	1220	10d
64)	CKDA	1220	10d[1])
5)	CKBL	1250	5d
66)	CFRN	1260	5[1])
67)	CJCB	°1270	5/1d[1])
68)	CJMS	1280	5d
69)	CFAM	1290	5d
70)	CKCV	1280	5d
71)	CKSL	1290	5d
72)	CKOY	1310	5/1d
73)	CKLB	1350	5d[1])
74)	CKLC	1380	5d[1])
75)	CFUN	1410	10/1d
76)	CKOM	1420	5d
77)	CKFH	1430	5d
78)	CJNB	1460	10d
79)	CFOR	1570	10/1
80)	CHUB	1570	10d[1])
81)	CHVC	1600	5d

°) Short Wave. [1]) FM.

	Short Waves:	kc/s	kW	m.w.	Name
67)	CJCX	6010	1	1270	Cape Breton Broadcasters Ltd.
44)	CHNX	6130	0.5	960	Maritime Broadcasting Co.
55)	CFVP	6030	0.1	1060	The Voice of the Prairies, Ltd.
51)	CFRX	6070	1	1010	Rogers Radio Broadcasting Co.
58)	CKFX	6080	0.01	1130	CKWX Radio, Ltd.

1) **R. Trois Rivieres Inc.,** 522 Bonaventure Str., Trois Rivieres, Qu. **D. Prgr.:** W. 09.50–04.00. Sun. 13.00–04.00.
2) **R. CFNB,** 67 York St., Fredericton, N.B. – **D. Prgr.:** W. 10.30–04.15. Sun. 11.50–04.15.
3) **CFRA Ltd.,** 150 Isabella St., Ottawa. – **D. Prgr.:** 24 h.
4) **Kirkland Lake Broadc. Ltd.,** Government Rd. W., Kirkland Lake. **D. Prgr.:** W. 11.00–05.15. Sun. 13.00–05.15.
5) **Atlantic Broadcasters Ltd.,** St. Ninian Str., Antigonish, N.S. – **D. Prgr.:** 10.45 (Sun. 13.00)–04.15. – V. by letter.
6) **Consolidated Frybrook Industries Ltd.,** 1262 Don Mills R., Toronto O.: 24 h.
7) **H. F. Dougall Co. Ltd.,** 414 Victoria Ave., Fort William, O. – **D. Prgr.:** 11.25 (Sun. 14.00)–05.00.
8) **Broadc. St. CKY Ltd.,** 432 Main Str., Winnipeg, M. – **L.P.:** Dir. Gen.: L. E. Moffat. – **D. Prgr.:** 24 h. – V. by letter.
9) **Colonial Broadc. System Ltd.,** McBride's Hill, St. John's Nfld. – **D. Prgr.:** W. 10.00–04.30.
10) **Canadian Marconi Co. Ltd.,** 600 Dominion Square Bldg., Montreal, Qu. – **D. Prgr.:** 24 h.
11) **Radio CFQC,** 216 First Ave. N., Saskatoon, Sas. – **L.P.:** Dir. Gen.: A. A. Murphy. – **D. Prgr.:** W. 24 h. exc.Mo. 07.00–13.00.
12) **CJOR Ltd.,** 846 Howe Str., Vancouver. B.C. – **L.P.:** Dir. Gen.: G. Chandler. – **D. Prgr.:** 14.00 (Sun. 15.30)–08.00. – V. by QSL-card or letter.
13) **Radio St. CHNC,** N. Carlisle, Qu. – **L.P.:** Dir. Gen.: Dr. C. H. Houde. – **D. Prgr.: French:** 12.00–05.00. – **CKNB: English:** 11.00–(Sun. 13.00)–04.15.
14) **The Niagara Distr. Broadc. Co. Ltd.,** 12 Yates Str., St. Catharines, O. – **L.P.:** Dir. Gen.: Miss M. C. Burgoyne. Dir. Tec.: W. Allen. – **D. Prgr.:** 10.45–05.10. V. by QSL-card or letter. – **FM.:** 97.7 mc/s 0.25 kW. **Polish:** Sat. 19.00–19.30. Sun. 14.00–15.00. **German:** Sun. 02.00–03.00. **Ukrainian:** Sun., Sat. 10.00–19.00. **Dutch:** Mo. 02.00–03.00.
15) **Transcanada Communications,** The Leader Post Bldg., Regina, Sas. – **L.P.:** Mgr.: D. R. Dawson. Dir. Tec.: E. A. Strong. – **D. Prgr.:** 24 h. – V. by QSL-card.
16) **Island R. Broadc. Co. Ltd.,** Broadc. Centre, 85 Kent Str., Charlottetown, PEI. – **D. Prgr.:** 11.15 (Sun. 13.00)–04.00.

17) Transcanada Communications Ltd., 300 Carlton Str., Winnipeg. D. Prgr.: W. 11.00–07.05; Sun. 13.15–05.35. – V. by letter.
18) La Tribune Limitee, 221 Dufferin Street, Sherbrooke, Qu. – D. Prgr.: 11.00 (Sun. 13.00)–05.00.
19) R. Edmonton Ltd., 10012–109th Str., Edmonton A. – D. Prgr.: 14.00 (Sun. 17.00)–07.00.
20) Blick Broadc. Ltd., Lindsay Bldg., 228 Notre Dame Ave., Winnipeg, Man. – D. Prgr.: 24 h.
21) Timmins Broadc. Co. Ltd., Thomson Bldg., Timmins, O. – D. Prgr.: W. 11.00–05.10 (Sat. 05.00). Sun. 12.00–05.10.
22) Radio Gravelbourg, Gravelbourg, Sas. – D. Prgr.: W. 14.00–05.00. Sun. 18.00–05.00.
23) La Cie. de Publication de "La Presse", 980 St. Catherine Str., W., Montreal, Qu. – D. Prgr.: 12.00–07.00.
24) Lions Gate Broadc. Ltd., 143 East 11th Str., N., Vancouver, B.C. – D. Prgr.: 24 h.
25) CKSO R. Ltd., 336 Ash Str., Sudbury, O. – D. Prgr.: 11.00 (Sun. 12.00)–06.00.
26) R. St. CHAB, 127 Main Str., Moose Jaw, Sa. – L.P.: Mgr.: S. Boyling. Dir. Tec.: M. Pickford. – D. Prgr.: 13.00–07.00. – V. by letter.
27) CHRC Ltd., 39 rue St-Jean, Quebec. – D. Prgr.: 11.00 (Sun. 13.30)–05.00. – V. by QSL-card.
28) CJAD Ltd., 1101 Mountain Str., Montreal, Qu. – D. Prgr.: 11.00 (Sun. 12.00)–05.05.
29) Western Ontario Broadc. Co. Ltd., 825 Riverside Drive West, Windsor, O. – D. Prgr.: W. 10.30–05.30. Sun. 12.00–05.00.
30) CKVL Ltd., 211 Gordon Ave., Verdun, Qu. – D. Prgr.: 24 h.
31) Maple Leaf Broadc. Co. Ltd., 848 Main Str. E., Hamilton, O. – D. Prgr.: 10.00 (Sun. 12.00)–07.00.
32) Central Public Service Corpn. Ltd., 6 St. Jean Str., Rimouski, Qu. – L.P.: Dir. Gen.: J. Brillant. – D. Prgr.: 11.00–05.00.
33) Island Broadc. Co. Ltd., 817 Fort Str., Victoria, B.C. – L.P.: Mgr.: Wm. M. Guild. Dir. Prgr.: W. Cowsden. Dir. Tec.: J. Somners. – D. Prgr.: D. 13.30–00.00. – N. 5 minute every hour. – ANN.: "This is Radio 9-CJVI, Victoria, your family station". – V. by letter.
34) Central Broadc. Co., Ltd., CKBI Bldg., 10th Str., Prince Albert, Sas. – D. Prgr.: 13.00 (Sun. 13.30)–03.00.
36) Inland Broadcasters Ltd., 337 4th Ave., Kamloops, B.C. – D. Prgr.: W. 14.00–07.30. Sun 15.30–07.00.
37) CJCH Ltd., 741 Robie Str., Halifax, N.S. – D. Prgr.: 14.00–04.15.
38) Fundy Broadc. Co. Ltd., 68 Carleton Str., S. John, N.B. – D. Prgr.: W. 10.00–05.00. Sun. 12.00–04.15.
39) Edmonton Broadc. Ltd., 10113–104th Str., Edmonton, A. – D. Prgr.: 24 h.
40) The Newfoundland Broadc. Co. Ltd., Prince of Wales Str., St. John's, Nfld. – D. Prgr.: D. 10.00–04.30 (Sat. 05.30).
41) Yorkton Broadc. Co. Ltd., Tower Theatre Bldg., 2nd Ave., Yorkton, Sas. – D. Prgr.: W. 13.00–07.00 (Sat. 08.00). Sun. 14.00–07.00.
42) Barrie Broadc. Co. Ltd., P. O. Box 519, Barrie, O. – D. Prgr.: W. 11.00–04.05. Sun. 13.25–04.05. – V. by QSL-card or letter. R.p.
43) Calgary Broadc. Co. Ltd., 1000 Greyhound Bldg., Calgary, Alta. – D. Prgr.: 24 h. exc. Tues. 07.00–12.30.
44) The Maritime Broadc. Co., Broadc. House, 10 Tobin Str., Halifax, N.S. – D. Prgr.: 10.00 (Sun. 12.30)–04.15.
45) The Frontenac Broadc. Co., 170 Queen Str., Kingston, O. – D Prgr.: 11.00 (Sun. 12.45)–05.00.
46) La Compagnie de Radiodiffusion CKCH de Hull Ltee., 121 Notre Dame Str., Hull, Qu. – L.P.: Dir. Gen.: M.A. Gratton. – D. Prgr.: F.: W. 11.00–04.15, Sun. 13.55–05.00. – V. by letter.
47) London Free Press Printing Co. Ltd., 442–6 Richmond Str., London, O. – D. Prgr.: 24 h. – V. by letter.
48) Kawartha Broadc. Co. Ltd., P. O. Box 657, Peterborough, O. – D. Prgr.: 11.00 (Sun. 13.40)–05.10. – V. by QSL-card. R.p.
49) W. Communications Ltd., 2060 Halifax Str., Regina, Sas. – D. Prgr.: W. 12.30–08.00. Sun. 14.00–07.00.
50) R. NW. Ltd., Windsor Hotel, 227 Colombia Street, New Westminster, B.C. – D. Prgr.: 24 h.
51) Rogers R. Broadc. Co., 37 Bloor Str. W, Toronto 5, O. – L.P.: Pres. W. C. Thornton Gran. Mgr.: W. McKnight. Dir. Tec.: C. Eastwood. – D. Prgr.: M. W.: 24 h. – On 6070 kc/s W. 10.30–06.05. Sun. 13.00–05.05. – N., Wrp. every h. on the h. exc. 17.00, 24.00. – ANN.: "This is CFRB Toronto". – V. by QSL-card.
52) Northern Broadc. Co. Ltd., 9910–99th Str., Grande Prairie, A. – D. Prgr.: 13.00 (Sun. 15.00)– 07.00.
53) York Broadcasters Ltd., 250 Adelaide Str., Toronto, O. 24 h.
54) R. Saint. Boniface Limitee, 607 Langevin St., St. Boniface, M. – D. Prgr.: W. 12.40–06.15. Sun. 15.00–06.00.
55) The Voice of the Prairies Ltd., 712 12th Ave. S. E., Calgary, A. – L.P.: Dir. Gen.: H. G. Love. Dir. Tec.: R. W. Lamb. – D. Prgr.: 24 h. exc. Mo. 07.05–13.00. – N. every h. on the h. – V. by QSL-card. Prgr. sched. on request.
56) Sarnia Broadc. Co. Ltd., 148 ½ Front Str. N., Sarnia, O. – L.P.: Dir. Gen.: C. Irvine. – D. Prgr.: 11.00 (Sun. 13.00)–05.10. – V. by etter.
57) CHED Ltd., 10035–107th Str., Edmonton, A. – D. Prgr.: 24 h.
58) CKWK, 1275 Burrard Str., Vancouver B.C. – D. Prgr.: 24 h. – V. by letter.
59) N. Brunswick Broadc. Co., 85 Germain Str., S. John, N.B. – D. Prgr.: W. 10.00–05.00. Sun. 11.55–04.15.
60) Wentworth R. Broadc. Co. Ltd., 32 John Str. N., Hamilton, O. – D. Prgr.: W. 10.00–06.00. Sun. 11.55–05.11.
61) Western Manitoba Broadcasters Ltd., 2940 Victoria Ave., Brandon, Man. – D. Prgr.: W. 12.00–07.00. Sun. 14.00–06.00.
62) Lethbridge Broadc. Ltd., 1015 Third Ave., S., Lethbridge, A. – D. Prgr.: W. 13.00–08.00. Sun. 14.30–07.00.
63) Moncton Broadc. Ltd., Knights of Pythias Bldg., Moncton, N.B. – D. Prgr.: W. 10.00–05.00 (Sat. 06.00). Sun. 12.00–04.15.
64) Capital Broadc. System Ltd., Hotel Douglas, Victoria, B.C. – D. Prgr.: W. 24 h. Sun. 15.00–08.00. – V. by letter.
65) La Cie. de Radiodiffusion de Matane Ltee., 4 St. Sacrement Str., Matane, Qu. – D. Prgr.: 12.00 (Sun. 13.55)–05.00. – V. by letter.
66) Saskwapta Broadc. Co. Ltd., 109 CRP Bldg., Edmonton, A. – L.P.: Dir. Gen.: G. R. A. Rice. – D. Prgr.: 24 h. – V. by letter.
67) Cape Breton Broadcasters Ltd., R. Bldg., Sydney, N.S. – D. Prgr.: 11.00–04.00. – V. by QSL-card.
68) Radio CJMS, P. O. Box 4000, Station "N", Montreal, Qu. – L.P.: Gen. Mgr.: F. Guay. – D. Prgr.: French 24 h. – V. by letter.
69) Southern Manitoba Broadc. Co. Ltd., Altona, Man.
70) CKCV Ltee., 978 St. John Str., Quebec. – D. Prgr.: W. 11.00–05.00. Sun. 13.00–05.00.
71) London Broadcasters Ltd., 343 Richmond Str., London, O. – D. Prgr.: W. 24 h. exc. Mo. 05.05–10.45.
72) CKOY Ltd., 635 Richmond Str., Ottawa, O. – D. Prgr.: 24 h.
73) The Lakeland Broadc. Co. Ltd., 16 Centre Str., Oshawa, O. – L.P.: Dir. Gen.: A. H. Collins. – D. Prgr.: 11.00–06.05. Sun. 13.00–05.05. – V. by letter.
74) St. Lawrence Broadc. Co. Ltd., 99 Brook Str., Kingston, O. – D. Prgr.: W. 24 h. Sun. 12.30–05.00.
75) R. C.-FUN Ltd., 1900 West 4th Ave., Vancouver 9, B.C.
76) Saskatoon Community Broadc. Ltd., Empire Hotel, Saskatoon, Sas. – D. Prgr.: W. 13.00–08.00. Sun. 14.00–07.00.
77) Foster Hewitt Broadcasting Ltd., 1 Greenville Str., Toronto, O.
78) Northwestern Broadcasting Co. Ltd., 1721 Main Str., North Battleford, Sa. – D. Prgr.: W. 13.00–08.05. Sat. 13.00–09.05. Sun. 14.30–17.05.
79) Radio CFOR, 241 West Str., N. Orillia, O. – D. Prgr.: W. 11.00–05.15. Sun. 12.45–05.15. – V. by letter. R.p.
80) Standard Broadcasting Co. Ltd., Malaspina Hotel, Nanaimo, B.C. L.P.: Man. Dir.: C. J. Rudd. – D. Prgr.: 14.00–09.00. Sun. 16.00–8.00. – V. by QSL-card. R.p.
81) CHVC Ltd., 1745 River Rd., Niagara Falls, O. – D. Prgr.: W. 11.00–05.05. Sun. 12.45–03.45.

★ GREENLAND (Danish Territory) ★

L.T.: W. Coast: GMT÷3 h. Thule area: GMT÷4 h. – Pr. L.: Greenlandic, Danish. – Po.: 27.000. – Revrs.: 4.500.

GRØNLANDS RADIOFONI (Go.)

ADDR.: Grønlands Radiofoni, Godthåb. – Cable: Radiofoni Godthåb. – L.P.: Dir. Broadc.: Fr. Nielsen.

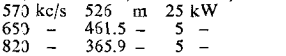
HOME SCE.: W.: 10.30–11.20, 13.00–17.00, 20.30–02.05. Sun.: 11.30–12.30, 15.00–16.30, 17.00–18.00, 20.00–20.50, 21.30–02.05.

Godthåb	570 kc/s	526 m	25 kW
Godhavn	650 –	461.5 –	5 –
Frederikshåb	820 –	365.9 –	5 –

N.: W.: 15.30, 21.40. Sun. 22.00. – Wrp.: W.: 11.15, 16.00, 21.15, 02.00. Sun.: 12.25, 16.25, 22.30, 02.00. – 1/6–1/10 – Prgrs. in Norwegian: Sun. 19.00–20.00. In Faroese: 20.50–21.30.

ANN.: "Kalatdlit-nunata radiua - Grønlands radio...". – V. by letter.

NT.-SIG.: played on celeste.



ANGMAGSSALIK RADIO

ADDR.: Angmagssalik Radiostation, Angmagssalik.

STATION: OZL 1500 kc/s 200 m 0.75 kW 7570 kc 39.63 m 2 kW. D. Prgr.: W.: 14.00–14.50. For communication with ships: 500 and 22.00 kc.

★ MEXICO ★

L.T.: GMT÷6 h. (Mexico generally); GMT÷7 h. (Sonora, Sinaloa, Nayarit and Lower Cal.); GMT÷8 h. (Upper Cal.). – Pr. L.: Spanish. – Po.: 34.000.000. – Revrs.: 2.800.000. – E.C.: 110/125 V., A.C., 50 c/s.

ABBREVIATIONS: Ags = Aguascalientes; B.C. = Baja California; Cam = Campeche; Chih = Chihuahua; Chis = Chiapas; Coah = Coahuila; Col = Colima; Dgo = Durango; Gro = Guerrero; Gto = Guanajuato; Hgo = Hidalgo; Jal = Jalisco; Mich = Michoacan; Mor = Morelos; Nay = Nayrit; N.L. = Nuevo Leon; Oax = Oaxaca; Pue = Puebla; Qro = Queretaro; Sin = Sinaloa; S.L.P. = San Luis Potosi;

Mexico

Son=Sonora; Tab=Tabasco; Tams=Tamaulipas; Tlax=Tlaxcala; Ver=Vera Cruz; Yuc=Yucatan; Zac=Zacatecas.

DIRECCION GENERAL DE TELECOMMUNICACIONES, Departamento de Radiodifusion, Col. Narvarte, Mexico D.F.

CULTURAL STATIONS: Short Waves. Call: XE---.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	SE	2380	126.0	0.35		Sría de Educación Pública
2)	JG	4820	62.24	0.2	630	R. Gobierno del Estado de Jalisco: 14.00–03.00
3)	XA	6175	48.58	0.1	1060	R. Gobernacion: Mo. 04.00–05.00
4)	YU	9600	31.25	0.25	860	Universidad Nac. de Mexico: 14.00–05.00
5)	RUU	15300	19.60	0.25	1310	Universidad de Chih.: 17.00–22.00.

Medium Waves: Call: XE---. °=short wave.

	Call	kc/s	m	kW		Call	kc/s	m	kW
2)	JB	°630	476.2	0.5	5)	RU	°1310	229.0	1/0.25
3)	DP	°1060	283.0	50.0	6)	XB	1400	214.3	0.5/0.25
4)	UN	°860	348.8	5.0	7)	XQ	1460	205.5	0.25

COMMERCIAL STATIONS: Call: XE --.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
8)	OI	6010	49.92	2.5	1000	R. Mil: 12.00–07.00
9)	UW	6020	49.88	0.25	960	El Eco de Sotavento: 12.00–06.00
10)	KW	6030	49.75	0.5	1300	R. Continente: 13.00–05.00
11)	TW	6045	49.63	0.1	810	La Voz de Tampico: 12.00–04.00
12)	XG	6065	49.46	5.0	940	R. Mexicana del Centro: 11.50–06.10
13)	CMT	6090	49.26	1.0	1450	R. Mante: 12.55–02.00
14)	QM	6105	49.14	0.25	1240	Emis. Unidas de Yuc : 13.00–05.00
15)	RCM	6130	48.94	0.1	1110	R. Central de Mexico: 11.00–07.00
16)	WW	9500	31.58	10.0	900	La Voz de la America Latina: 11.45–06.35
12)	DF	9535	31.46	5.0	730	R. dif. Mexico
17)	FT	9545	31.43	0.25	1250	La Voz de Veracruz: 12.00–05.00
18)	TT	9555	31.40	0.5	1350	La Hora Exacta: 12.00–06.00
19)	BT	9625	31.17	10.0	1220	R. Satélite: 12.00–08.00
12)	QQ	9680	30.99	1.0	940	R. Mexicana del Centro: 11.50–06.10
20)	NN	11780	25.47	0.5	690	R. XEN/XENN
21)	BR	11820	25.38	0.15	920	El Heraldo de Sonora: 13.00–05.00
22)	MZ	11860	25.29	1.0	1440	R. Independiente: 13.00–06.00
23)	HH	11880	25.25	1.0	1500	R. dif. XERH/XEHH: 13.00–06.00
12)	XE	11900	25.21	1.0	730	R. dif. Mexico
16)	WW	15160	19.79	10.0	900	La Voz de la America Latina 11.45–06.35
24)	SC	15205	19.73	5.0	1590	El Heraldo de las Telas de Junco: 24 h.

Medium Waves: Call: XE---. °=short wave. [1]=also FM. [2]=rel. st. [3]=time signals.

	Call	kc/s	kW
16)	WA	°540	150
25)	KL	550	1/0.25
26)	QW	550	5
27)	LQ	570	1
28)	OA	570	1/0.25
29)	TJ	570	1/0.1
30)	AV	580	25
31)	DZ	580	1/0.45
32)	FI	580	5/0.25
33)	HP	580	1/0.15
34)	MU	580[1]5/0.25	
35)	FD	590	5/0.25
36)	PH	590	5
37)	Z	600	10
38)	BB	600	5/1
39)	DN	600[1]	
40)	BX	610	5/0.5
41)	CV	610	1/0.25
42)	GS	610	5/0.75
43)	JA	610	1/0.5
44)	UF	610	5/1
45)	BU	620	1/0.25
46)	NK	620	10/5
47)	FB	630	10
48)	FU	630	2/0.75
49)	ZM	650	5
50)	RPM	660	10/5
51)	FJ	680	1
52)	LG	680	10
20)	N	°690[1]5	
53)	AK	690	50
54)	ON	710	1
12)	X	°730[2]500	
55)	HJ	760	1
56)	BI	790	1/0.25
57)	FE	790	1/0.5
58)	GZ	790	1/0.25
59)	NT	790	1/0.5
60)	RC	790[2]5/1	
61)	SU	790	1
62)	AN	800	1
63)	LO	800	150
11)	FW	°810	50/30
64)	LA	830	10/5
65)	BA	840	1
66)	PQ	850	10
67)	DU	860	1/0.5
68)	MO	860	5
69)	HQ	890	1/0.5
16)	WW	°900	250
21)	BH	°920	5/1
70)	BM	920	5/1
71)	MJ	920	1/0.25
72)	OK	920[3]1/0.25	
12)	Q	°940	150/50
73)	WV	940[1]1	
74)	GM	950	3.5/2.5
75)	K	960	5/1
9)	U	°960	0.5
76)	HK	960	1/0.25
77)	J	970	10/5
78)	O	970	1
79)	CJ	970	1/0.25
80)	DF	970	1/0.5
81)	OW	970	1/0.25
82)	VT	970	5/0.4
83)	KE	980	1/0.25
84)	LC	980	5/0.2
85)	NR	980	5/0.5
86)	TU	980	5/1
87)	XT	980	1
88)	T	990[2]50/5	
89)	CL	990	5
8)	OY	°1000[2]10	
90)	HL	1010[2]10/5	
91)	TX	1010	1/0.25
92)	WS	1010	5
60)	QR	1030[2]10/1	
93)	D	1050	10
94)	G	1050	150
95)	RB	1090	50
96)	RG	1090	2.5
15)	RCN	°1110	50
97)	TR	1120	1
98)	AD	1150[1]1/0.12	
60)	JP	1150	1/0.6
99)	XZ	1150	1/0.2
100)	GR	1160	1
101)	RT	1170	5
102)	FR	1180	1/0.25
19)	B	°1220	100
103)	S	1240	1/0.25
104)	BQ	1240	1/0.5
14)	MQ	1240	1/0.25
105)	DK	1250	1
106)	DL	1250[1]1/0.5	
107)	JX	1250	1/0.1
108)	SJ	1250	1/0.5
17)	TF	°1250	0.5
109)	E	1260	1/0.25
110)	L	1260	10
111)	R	1260	1/0.25
112)	BL	1260	5/0.5
113)	HO	1260	1/0.25
114)	AX	1270[1]1/0.25	
115)	PV	1270	1/0.25
116)	AG	1280	1
12)	AW	°1280[2]5/0.5	
117)	BW	1280	1/0.6
118)	GJ	1280	1/0.25
119)	DA	1290	1
120)	P	1300	1/0.5
121)	CQ	1300	1/0.5
10)	SF	°1300	0.5
122)	XW	1300	1/0.1
123)	AM	1310	1/0.25
124)	BP	1310	5/0.25
125)	FE	1310	1
126)	FH	1310	1
127)	HV	1310	1
128)	PO	1310	1
129)	AI	1320[1]1	
130)	RJ	1320	1/0.5
131)	BO	1330	1
132)	FC	1330	1
133)	LW	1340	1/0.25
134)	OM	1340	1/0.25
135)	UX	1340	1/0.25
18)	QK	°1350[2]1	
136)	TB	1350	5/0.5
137)	TM	1350	1
138)	Y	1360	1/0.17
139)	KF	1360	1/0.5
140)	SA	1360	1/0.5
141)	A	1370	1
142)	HF	1370	5
143)	LX	1370	10
144)	MR	1370	1
145)	MX	1380	1
146)	RS	1380	2.5
147)	M	1390	5
148)	OR	1390[2]1	
149)	TK	1390	1/0.5
150)	TL	1390	1
151)	I	1400	1/0.25
152)	DE	1400	1/0.25
153)	KJ	1400	1/0.25
154)	SP	1400	1
155)	TO	1400[1]1/0.25	
156)	YC	1400	1
157)	AS	1410	1/0.25
158)	BS	1410	5/1
159)	CF	1410	1/0.5
160)	WM	1410	1/0.5
161)	F	1420[2]5/0.5	
162)	H	1420	1
163)	EW	1420	1
164)	PK	1420	1/0.15
165)	WE	1420	5/1.75
166)	XX	1420	2
167)	CZ	1430	1
168)	HD	1430	2/0.15
169)	LL	1430	5/0.25
170)	OX	1430[1]5/0.5	
22)	LZ	°1440	5/1
13)	CM	°1450	1/0.25
171)	NA	1450	1/0.25
172)	NW	1450	1/0.25
173)	VH	1450[1]1/0.25	
174)	HX	1460	1/0.25
175)	AU	1470[1]5	
176)	RL	1470	1/0.25
177)	SM	1470	10/5
178)	AR	1480	1/0.5
179)	PR	1480	5
180)	GT	1490	1/0.25
12)	OB	°1490	1/0.25
23)	RH	°1500	20
181)	GD	1520	1
182)	BG	1550	1
183)	JJ	1550	10
184)	RX	1560	1/0.25
185)	GE	1570[1]1	
186)	RF	1570	150
187)	DM	1580	50
188)	NQ	1580	1
24)	MC	°1590	10/5

* 98 low power st. not mentioned. **FM:** 40 st's.

The Mexican government requires all st's. to carry "La Hora Nacional del Gobierno Mexicano" every Mo.: 04.00–05.00. The broadcast originates in the studios of XEW usually, and the technical facilities are used in transmitting the prgr. and relaying all other st's.

CULTURAL STATIONS:

1) **R.dif. XESE,** Sría. de Educación Pública, Direccion de Asuntos Indígenas, Sección Administrativa, Mexico D.F.

2) Palacio de Gobierno, Guadalajara, Jal.

3) Ca. de Bucareli, Mexico. – **D. Prgr.: "La Hora Nacional":** Mo. 04.00–05.00.

4) Justo Sierra 16, Mexico D.F.

5) Domicilio Conocido, Chihuahua, Chih. – **D. Prgr.** in Spanish & local dialects.

6) **Universidad Veracruzana,** Domicilio Conocido, Jalapa, Ver.

7) **Universidad Autónoma de San Luis Potosi,** San Luis Potosi.

COMMERCIAL STATIONS:

8) Fomento de Radio S.A., Ayuntamiento 101, Mexico D.F. – **L.P.:** Dir. Gen.: Lic. E. G. Salas P. Mgr.: F. Ibarra L. – **ANN.:** "Radio Mil, en los mil kilociclos de su radio con Música a su Gusto". – **INT.-SIG.:** "Es Radio Mil". – **V.** by QSL-card or letter.

9) Av. Independencia 230, Veracruz, Ver. – **V.** by letter.

10) Allende 29, Morelia, Mich. – **L.P.:** Dir.: J. Martinez R.

11) Madero 204 Oriente, Apt. Postal 797, Tampico, Tams. – **V.** by letter and QSL-card.

12) José Maria Marroquí 11, Mexico, D.F. – **L.P.:** Dir. Gen.: E. Balli. Dir. Tec.: J. de la Herrán. – **D. Prgr.: N.:** 12.15, 13.15, 14.00, 19.45, 20.30, 00.25, 01.00, 01.25, 03.30, 04.15, 05.00, 06.00. **Nat. Music:** 12.00, 13.00, 16.00, 19.00. (9680 kc/s for So. America). **Rel. st's.** operating on 730 kc/s in Saltillo, Coah. (XEQS), Veracruz, Ver. (XEQVV), Torreón, Coah. (XEQT), Guadalajara, Jal. (XEQG), San Luis Potosi (XEQSL), Monterrey, N.L. (XEQM). – **ANN.:** "XEQ, su Red de potentes estaciones". – **V.** by QSL-card or letter.

13) Km. 560 Carretera Mexico-Laredo, Ci. Mante, Tams. – **V.** by post-card.

14) Ca. 60 No. 735-D, Merida, Yuc. – **V.** by letter.

15) Vallarta 1–40. Piso México 1, D.F. – **L.P.:** Pres.: R. C. Navarro. Gen. Mgr.: R. S. López. Dir. Tec.: M. M. Huerta. – **D. Prgr.: N.:** 12.00, 01.00, 03.30, 05.45. **Comm.:** 14.30. **Wrp.:** 15.30. – **ANN.:** "Aqui Mexico... XERCN, Estacion Piloto de Radio Cadena Nacional...". – **V.** by QSL-card. R.p.

16) Cadena R.dif. Mexicana S.A., Ayuntamiento 54, Mexico, D.F. – **L.P.:** Pres.: E. Azcarraga V. Dir. Gen.: E. Azcarraga M. Dir. Tec.: J. de la Herrán. – **D. Prgr.: N.:** 12.00, 14.00, 20.30, 00.45, 04.45, 05.45. – **Relay st's.:** XEWA San Luis Potosi, XEWB Veracruz, XEWM Monterrey, XEWK Guadalajara. – **ANN.:** "XEW y XEWW La Voz de la America Latina desde Mexico".

17) Av. Independencia 74, Veracruz, Ver. – **V.** by QSL-card.

18) Dolores 10, Primer Piso, Mexico, D.F. – **D. Prgr.:** M.w. 24 h.

19) **El Buen Tono,** Ca. del Buen Tono 6, Mexico, D.F. – **L.P.:** as 16). – **D. Prgr.: N.:** every h. on the h. **Concert:** D. 04.00. – **V.** by QSL-card or letter.

20) Salvador del Conde, Lafragua 34, Mexico, D.F.

21) P.O. Box 68, Hermosillo, Son. – **L.P.:** Dir.: J. R. Agraz N. – **D. Prgr.:** N. every h. on the h. – **ANN.:** "XEBH, XEBR El Heraldo de Sonora desde Hermosillo". – **V.** by letter. – **F.PL.:** s.w. 0.5 kW, FM.

22) Rio Poo 48, Mexico, D.F. – **L.P.:** Dir.: M. Cardona de Zetina. –

NORTH AMERICA
GREENLAND
1:40 Mill.
KM
0
500
1000
2000
Arctic Ocean
Baffin Bay
Hudson Bay
Davis Strait
Denmark Strait
GREENLAND
THULE
UPERNAVIK
ANGMAGSSALIK
GODHAVN
GODTHAB
FREDERIKSHAB
Baffin Isl
KOVIK
Labrador
GRAND FALLS
ALASKA
FAIRBANKS
ANCHORAGE
CORDOVA
Yukon
North West Territories
NELSON
British Columbia
Alberta
CANADA
Saskatchewan
Manitoba
Ontario
Quebec
EDMONTON
PRINCE ALBERT
KAMLOOPS
VANCOUVER
CALGARY
SASKATOON
WATROUS
REGINA
KELOWNA
VICTORIA
SEATTLE
MEDICINE HAT
LETHBRIDGE
BRANDON
WINNIPEG
PORT ARTHUR
FORT WILLIAM
TIMMINS
SUDBURY
TROIS RIVIERES
QUEBEC
VERCHERES
MONTREAL
OTTAWA
ST JOHN
CHICOUTIMI
DRUMMONDVILLE
WOODSTOCK
MONCTON
GANDER
ST JOHN'S
ST PIERRE
New Foundland
SYDNEY
SACKVILLE
WINDSOR
HALIFAX
SAINT JOHN
Maine
SPOKANE
Washington
PORTLAND
Montana
N. Dakota
Minnesota
ST PAUL
MINNEAPOLIS
Wisconsin
Michigan
TORONTO
LONDON
New York
SCHENECTADY
BOSTON
Massachusetts
Connecticut
NEW YORK
BOUND BROOK
PHILADELPHIA
Delaware
Oregon
Idaho
S. Dakota
Wyoming
WATERLOO
Iowa
DETROIT
BUFFALO
Pennsylvania
PITTSBURG
Ohio
Nebraska
CHICAGO
DESMOINES
Indiana
CINCINNATI
WASHINGTON
Maryland
SACRAMENTO
Nevada
SALT LAKE CITY
Utah
DENVER
OMAHA
Illinois
INDIANAPOLIS
Virginia
SAN FRANCISCO
California
UNITED STATES
K CITY
ST LOUIS
LOUISVILLE
RICHMOND
PEMBROKE
FRESNO
DELANO
Colorado
LAWRENCE
Kansas
Missouri
Kentucky
RALEIGH
N. Carolina
Bermuda
HOLLYWOOD
LOS ANGELES
TULSA
Oklahoma
Arkansas
Tennessee
NASHVILLE
CHARLOTTE
S. Carolina
Arizona
ALBUQUERQUE
New Mexico
OKLAHOMA CITY
LITTLE ROCK
MEMPHIS
Mississippi
ATLANTA
BIRMINGHAM
Alabama
Georgia
DALLAS
FORT WORTH
SHREVEP
Texas
Louisianna
NEW ORLEANS
Florida
HOLLYWOOD
NASSAU
Bahama
MIAMI
HERMOSILLO
SAN ANTONIO
HOUSTON
PIEDRAS NEGRAS
CORPUS CHRISTI
NUEVO LAREDO
TORREON
JUAREZ
REYNOSA
GULF OF MEXICO
MONTERREY
LA PIEDAD
ROSARIO
MEXICO
TAMPICO
GUADALAJARA
ST LOUIS
LEON
MEXICO CITY
MORELIA
VERA CRUZ
PUEBLA
BELIZE
MATANZAS
SANTA CLARA
CAMAGUEY
HOLGUIN
SANTIAGO DE CUBA
GONAIVES
CAP HAITIEN
PUERTO PLATA
SANTIAGO
LA VEGA
DOMINICAN REP.
LA ROMANA
MAYAGUEZ
SAN JUAN
HABANA
CUBA
PETIONVILLE
HAITI
KINGSTON
JAMAICA
PUERTO RICO
CIUDAD TRUJILLO
SAN CRISTOBAL
PORT AU PRINCE
CARIBBEAN SEA
CENTRAL
AMERICA
GUATEMALA CITY
SAN SALVADOR
TEGUCIGALPA
MANAGUA
SAN JOSE
PANAMA
MARACAIBO
MERIDA
VENEZUELA
COLUMBIA
MEDELLIN
NORTH PACIFIC OCEAN
NORTH ATLANTIC OCEAN
70°
60°
50°
40°
30°
20°
10°
140°
130°
120°
110°
100°
90°
80°
70°

Mexico

D. Prgr.: English: 14.00–15.00, 02.00–03.00. – F.Pl.: Prgr's in French.
23) A.R.S.E., S.A., Quemada 40, Col Narvarte, Mexico 12, D.F.
24) Calz. México a Xochimilco Km. 17, Parada Rio Blanco, Mexico, D.F.

Medium Waves:

25) **R.dif. XEKL,** Zamora 12, Jalapa, Ver.
26) **R. Mexicana de Merida,** Ca. 64 No. 526, Merida, Yuc. – **D. Prgr.:** 12.30–04.30. – V. by letter. – **F.Pl.:** 10 kW.
27) **R.dif. XELQ,** Morelos Nte. 68, Morelia, Mich.
28) **R. Oaxaca,** Carlos Bustamante 17, Oaxaca, Oax.
29) **R.dif. XETJ,** Av. Lerdo de Tejada 1564, Torreón, Coah.
30) **R.dif. XEAV,** Independencia 42 Norte, Guadalajara, Jal.
31) **R.dif. XEDZ,** Ca. 9 No. 58, Córdoba, Ver.
32) **Pregonero del Edo. de Chihuahua,** Libertad 1302, Chihuahua.
33) **R.dif. XEHP,** Ca. 14 No. 150 entre, Victoria, Tams.
34) **R.dif. XEMU,** E. Carranza 3, Piedras Negras, Coah.
35) **R.dif. XEFD,** Carretera a Matamoros, Rio Brabo, Tams.
36) **XEPH: R. 590, XEMX: R. Feminina,** Av. Morelos 58, Mexico. – **L.P.:** Dir. Gen.: C. Flores. – **D. Prgr.: XEPH:** 13.00–07.00, **XEMX:** 13.00–06.00.
37) **La Voz de la Peninsula,** Ca. 64 No. 508, Mérida, Yuc.
38) **R. Acapulco,** Morelos 3, Acapulco, Gro.
39) **Dif. del Norte,** Av. Juárez 1424, Torreón, Coah.
40) **R.dif. Coahuila,** Av. Carranza 38 y Zaragoza, Sabinas, Coah.
41) **R.dif. XECV,** Francisco I. Madero 35, Ci. Valles, S.L.P.
42) **R. Guasave,** Zaragoza 45 Altos, Guasave, Sin.
43) **R.dif. XEJA,** Pasaje Tanos, Ca. Enriquez, Jalapa, Ver.
44) **R.dif. XEUF,** Alvaro Obregón 19, Uruapan, Mich.
45) **R.dif. XEBU,** Ojinaga 118, Chihuahua, Chi.
46) **R. 620,** Balderas 32,4° Piso, Mexico, D.F.
47) **Emis. Incorporadas de Monterrey,** 5 de Mayo, Monterrey, N.L.
48) **R.dif. XEFU,** Hidalgo 36, Cosamaloapan, Ver.
49) **La Voz del Comercio de Zamora,** 5 de Mayo 30, Zamora, Mich.
50) **Vocero Mexicano,** Av. Insurgentes 323–1, Mexico, D.F.
51) **R.dif. XEFJ,** Benito Juárez 86, Teziutlán, Pue.
52) **R. Impulsora del Centro,** Pasaje de las Tullerias 1, Leon, Gto.
53) **R.dif. XEAK,** Esq. Lerma y Bravo, Col. Marrón, Tijuana, B.C.
54) **R.dif. XEON,** Jardin Santo Domingo, Tuxtla Gutierrez, Chis.
55) **R.dif. XEHJ,** Juárez 595–2, Guadalajara, Jal.
56) **R.dif. XEBI,** Madero 92, Aguascalientes, Ags.
57) **R.dif. XEFE,** Aldama 2611, Nuevo Laredo, Tams.
58) **R.dif. XEGZ,** Apt. Postal 6, Ci. Lerdo, Dgo.
59) **R.dif. XENT,** Apt. Postal 105, Col. Sol, La Paz, B.C.
60) **R. Exitos (XERC), R. Centro (XEQR), R. Variedades (XEJP), R. Joya (XHFM),** Articulo 123 No. 90, Mexico, D.F. – **L.P.:** Dir. Gen.: F. A. Jimenez. – **D. Prgr.:** 12.30–08.30. – **ANN.: XERC:** "7... 90... Campeona en Exitos Musicales... XERC". XEQR: "Radio Centro, Musica ligada a su recuerdo XEQR 1030 kc/s". XEJP: "XEJP Reina de la Popularidad. Voz de Mexico". – **INT.-SIG.:** Bells.
61) **R.dif. XESU,** Morelos 163–14, Mexicali, B.C.
62) **R. Ocotlán,** Niños Héroes 245, Ocotlán, Jal.
63) **R.dif. de P. Negras,** Ca. 21 y K, Ci. Juárez, Chih.
64) **R. Metropolitana,** Paseo de la Reforma 139, Mexico, D.F.
65) **R.dif. XEBA,** Pino Suárez 183, Guadalajara, Jal.
66) **R.dif. XEPQ,** Colón y Sur 3 Altos, Orizaba, Ver.
67) **R.dif. XEDU,** 20 de Noviembre 105 Pte., Durango, Dgo.
68) **R.dif. XEMO,** Durango 10, Tijuana, B.C.
69) **R. Hermosillo,** Juárez Esq. con Serdán, Hermosillo, Son.
70) **R.dif. XEBM,** Jardín Hidalgo 15, San Luis Potosi, S.L.P.
71) **R.dif. XEMJ,** Blvd. V. Carranza 6, Piedras Negras, Coah.
72) **R.dif. XEOK,** Xicotencatl 1051 Ntr., Monterrey, N.L.
73) **R.dif. XEWV,** Av. Madero 1208–1, Mexicali, B.C.
74) **R.dif. XEGM,** Av. "G" 185, Tijuana, B.C.
75) **R.dif. XEK,** Gen. Gonzalez 1609, Nuevo Laredo, Tams.
76) **R.dif. XEHK,** Pedro Moreno 315 Desp. 203–205, Guadalajara, Jal.
77) **Mexican Broadc. Co.,** Constitución 402, Ci. Juárez, Chih.
78) **R.dif. El Gallo,** Ca. 9a No. 95 entre, Matamoros, Tams.
79) **R.dif. XECJ,** 5 de Mayo 19, Apatzingan, Mich.
80) **R.dif. XEDF,** Av. Chapultepec 18, Mexico, D.F.
81) **R.dif. XEOW,** 5 de Mayo 64, Mazatlán, Sin.
82) **R.dif. XEVT,** Zaragoza Sur 3, Villahermosa, Tab.
83) **R. Navojoa,** Morelos y Toledo, Navojoa, Son.
84) **R.dif. XELC,** Ocampo 3, La Piedad, Mich.
85) **R.dif. XENR,** Juárez 7 Altos, Nueva Rosita, Coah.
86) **Impulsora Moderna del Radio,** Ca. Muello y S. Diaz Mirón, Tampico, Tams.
87) **Radiofónica de Nayarit,** Parque Juan Escutia, Tepic, Nay.
88) **El Pregonero del Norte,** 5 de Mayo Ote. 650, Monterrey, N.L.
89) **R.dif. XECL,** Av. Madero 621, Mexicali, B.C.
90) **R.dif. XEHL,** Sector Hidalgo Ca. 10 No. 183, Guadalajara, Jal.
91) **R. Casas Grandes,** Av. P. Diaz y Minerva 400, Nuevo Casas Grandes, Chih.
92) **R.dif. XEWS,** Rubi 57 Nte. Depo. 1, Culican, Sin.
93) **R.dif. XED,** Av. Madero Azueta, Mexicali, B.C.
94) **La Voz de Norteamérica,** Hidalgo 426 Ote., Monterrey, N.L.
95) **Interamericana de Radio,** Edif. California Desp. 2, Rosarito, B.C.
96) **R. Laredo,** Matamoros y Pino Suárez, Nuevo Laredo, Tams.
97) **R.dif. XETR,** Carretera México-Laredo 29 Sur, Ci. Valles, S.L.P.
98) **R.dif. XEAD,** Sector Hidalgo Ca. 10 No. 183, Guadalajara, Jal.
99) **R.dif. XEXZ,** Jardin Hidalgo 42-B, Zacatecas, Zac.
100) **R.dif. XEGR,** 16 de Septiembre 12, Ccatepec, Ver.
101) **R. Televisora Siglo Veinte,** Porfirio Diaz 392, Reynosa, Tams.
102) **R.dif. XEFR,** Isabel la Católica 33–117, Mexico, D.F.
103) **R. Televisora de Tampico,** Altamira 113 Fte., Tampico, Tams.
104) **R.dif. XEBQ,** Casa "T" 142, Empalme, Son.
105) **R. Guadalajara,** Independencia 42 Nte., Guadalajara, Jal.
106) **R.dif. XELL,** Angel Flores 26 Fte., Hermosillo, Son.
107) **R.emis. Queretana,** Madero 18, Cuerctana, Qro.
108) **R. Saltillo,** Manuel Acuña Sur 102-C, Saltillo, Coah.
109) **R.dif. XEE,** 20 de Nov. 122 Fte., Durango, Dgo.
110) **Capital Broadc. System,** Av. Reforma 400 Desp. 701, Mexico D.F.
111) **R. Linares,** Km. 856. 3 Carretera Nacional, México-Laredo, Linares, N.L.
112) **R.dif. XEBL,** Carrasco 23 Nte., Culiacan, Sin.
113) **R.dif. XEHO,** Guerrero 426, Ci. Obregon, Son.
114) **R.dif. XEAX,** Av. Manuel Garcia Vigil 5, Oaxaca, Oax.
115) **R.dif. XEPV,** Mina 1, Papantla, Ver.
116) **La Voz de Cordoba,** Av. 1 No. 135, Cordoba, Ver.
117) **R.emis. del Norte,** Av. Juárez 1005 Altos, Chihuahua, Chih.
118) **R.dif. XEGJ,** Av. Juárez 171, Guadalajara, Jal.
119) **R.dif. XEDA,** Dolores 10 Primer Piso, Mexico, D.F.
120) **R.dif. XEP,** 16 de Sep. 6 Ote., Ci. Juárez, Chih.
121) **R. Culiacan,** Escobedo 226 Pte., Culiacan, Sin.
122) **R.dif. XEXW,** Bolivar 19, Nogales, Son.
123) **R.dif. XEAM,** Zaragoza y Séptima, Matamoros, Tams.
124) **La Voz de la Laguna,** Cepeda Sur 409, Torreon, Coah.
125) **R.dif. XEFE,** Aldama 2611, Nuevo Laredo, Tams.
126) **R.dif. XEFH,** Av. Fanamericana 267, Agua Prieta, Son.
127) **R.dif. XEHV,** Aquiles Serdán 126, Veracruz, Ver.
128) **R. Ondas Populares,** V. Carranza 41, San Luis Potosi, S.L.P.
129) **R.dif. XEAI,** San Juan de Letrán 130, Mexico, D.F.
130) **R. Mazatlán,** Mariano Escobedo 75 Pte., Mazatlan, Sin.
131) **R.dif. XEBO,** Berriozábal 8, Irapuato, Gto.
132) **R.dif. XEFC,** Ca. 64 No. 498, Mérida, Yuc.
133) **R.dif. XELW,** López Cotillo 769, Guadalajara, Jal.
134) **R.dif. XEOM,** Zaragoza y Corregidora, Coatzacoalcos, Ver.
135) **R.dif. XEUX,** Ca. Mexico 20, Tuxpan, Nay.
136) **R. Laguna,** Valdez Carilo 223 Sur, Torreon, Coah.
137) **R.dif. XETM,** Av. Fco. I Madero 26 Altos, Naco, Son.
138) **R.dif. XEY,** Tres Guerras 33, Celaya, Gto.
139) **R.dif. XEKF,** Altamirano 21, Iguala, Gro.
140) **La Voz de Sinaloa,** Av. A. Obregón 39, Culiacan, Sin.
141) **R.dif. XEA,** Ca. 55 No. 6, Campeche, Cam.
142) **R.dif. Com. Sonorense,** Altos Edif. Eco. Abric. y Ganadero, Nogales, Son. – V. by QSL-card.
143) **R.dif. XELX,** Av. Revolución 194, Zitacuaro, Mich.
144) **R.dif. XEMR,** Galena Norte 1055, Monterrey, N.L.
145) See 36).
146) **R.dif. XERS,** Av. Hidalgo 1404 Sur, Gomez Palacio, Dgo.
147) **Mexican Broadc. Co.,** Ojinaga 4106, Chihuahua, Chih.
148) **R.dif. El Gallo,** Pedro José Méndez 154 Ote., Reynosa, Tams.
149) **R.emis. de Occidente,** Av. Angel Flores 42 Ote., Mazatlan, Sin.
150) **R.dif. XETL,** Av. Independencia y P. Correo Viejo, Tuxpan, Ver.
151) **R.dif. XEJ,** Portal Hidalgo 213, Morelia, Mich.
152) **R.dif. XELE,** Corona Fte. 310, Saltillo, Coah.
153) **R. Mar,** Plaza Alvarez s/n, Acapulco, Gro.
154) **R. Impulsora de Occidente,** Ca. de Pedro Loza 31, Guadalajara.
155) **R. Tiempo,** Cap. E. Carranza 320 Ote., Tampico, Tams.
156) **R.dif. XEYC,** Av 16 de Sep. y Progreso, Ci. Juárez, Chih.
157) **R.dif. XEAS,** Mina 5037, Nuevo Laredo, Tams.
158) **Hispano Mexicano,** Pza. Santos Degollado 10, Mexico, D.F.
159) **La Voz del Valle del Fuerte,** Av. Obregón 264, Los Mochis, Sin.
160) **R. Televisora Tabasquena,** Domicilio Conocido, Villahermosa.
161) **R.dif. XEF,** 20 de Nov. 504, Ci. Juárez, Chih.
162) **R. Tárnava,** Padre Mier 248 Altos, Monterrey, N.L.
163) **R.dif. XEEW,** 6a. y Guerrero, Matamoros, Tams.
164) **R.dif. XEPK,** Ca. Guerrero 243, Fachuca, Hgo.
165) **R. Irapuato,** Tres Guerras 23, Irapuato, Gto.
166) **R.dif. XEXX,** Revolución y Octava, Tijuana, B.C.
167) **R.dif. Mexicana,** Av. Venustiano Carranza 22, San Luis Potosi.
168) **El Heraldo Fronterizo,** A. Obregón 569, Ci. Miguel Alemán, Tams.
169) **R.dif. XELL,** Av. Independencia 62, Veracruz, Ver.
170) **R.dif. XEGX,** Veracruz 63, Ci. Obregón, Son.
171) **R. Queretana,** Madero 58, Queretaro, Qro.
172) **R.dif. XENW,** Matamoros 14, Culiacan, Sin.
173) **R.dif. XEVH,** Frecha 82 con la Apt. Postal 66, Valle Hermoso.
174) **R.dif. XEHX,** Niños Héroes 219, Ci. Obregón, Son.
175) **R.dif. XEAU,** Av. Carranza, 1638, Tijuana, B.C.
176) **R.dif. XEKL,** 27 de Septiembre 290, Colima, Col.

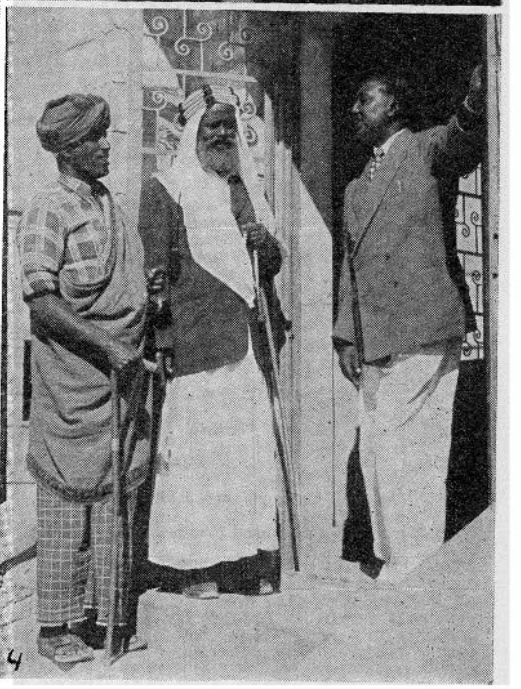
1. **Radio Kuwait:** His Highness, Shaikh Abdallah Al Mubarak As-Sabah, Vice-Ruler of Kuwait during a broadcast.

2. **Radio Canada:** Pierre Monteux, left, celebrated French conductor, being interviewed for Radio Canada by Jean Vallerand, well-known Canadian composer, music critic, and radio interviewer.

3. **Fiji Broadcasting Commission:** Alf Bentley and hisIslanders, a popular broadcasting and recording group at the Fiji Broadc. Commission.

4. **Radio Somali, Hargeisa:** Broadcasts at Radio Somali.

5. **Liberia:** Liberian children heartily sing on the beloved Kiddies Korner-program over station ELWA, Monrovia.



177) El Heraldo del Chocolate Abuelita, Rébsamen 241, Col. Narvarte, Mexico, D.F.
178) R.dif. XEAR, Av. Pino Suárez 223 Sur, Monterrey, N.L.
179) R.fonica de Poza Rica, Ca. 6 Nte. 2 y Av. Central Ote., Poza Rica, Ver.
180) R. Zamora, 5 de Mayo 30, Zamora, Mich.
181) R.dif. XEGD, Av. Gral. Maclovio Herrera 79, Parral, Chih.
182) R.dif. XEBG, Av. C 255 Altos, Tijuna, B.C.
183) R. 155, Lerdo 7, Jalapa, Ver. – D. Prgr.: 12.00–06.00. Concert: Sun. 02.00. – ANN.: "R. 155 en el Estado de Veracruz desde Jalapa, Jardin de Mexico". – F.Pl.: FM and TV st's.
184) R.dif. XERX, Morelos 7, Salamanca, Gto.
185) R. Comercial de Baja California, Ca. C. 137, Mexicali, B.C.
186) R.dif. de Coahuila, Camino San Carlos, Ci. Acuña, Coah.
187) R. Pacifico, Matamoros Edif. Combate Dep. 1, Hermosillo, Son.
188) R.dif. XENQ, Plaza de la Constitucion, Tulancingo, Hgo.

★ SAINT PIERRE ET MIQUELON (French) ★

L.T.: GMT ÷ 3 h. – Pr. L.: French. – Po.: 5.000. – Revrs.: 1.000. – E.C.: 110 V., A.C., 50 c/s.

RADIO ST. PIERRE (Go.)

ADDR.: Gouverneur des Iles St. Pierre et Miquelon, Saint Pierre. – D. PRGR.: 1375 kc/s 218.2 m 1 kW: 15.30–17.00, 23.30–02.00. – N.: W. 16.20, 24.00. – ANN.: "Ici Radio Saint Pierre, Territoire francais des Iles St. Pierre et Miquelon". – INT.-SIG.: Marche Lorraine. – V. by QSL-card or letter. – F.PL.: Change of frequency to 1480 kc/s possible.

★ UNITED STATES OF AMERICA ★

L.T.: See World Time Table. – Pr.L.: English. – Po.: 177.300.000. – Revrs.: 150.000.000.

VOICE OF AMERICA (Go.)

"THE VOICE OF AMERICA" is operated by the Broadcasting Service of the United States Information Agency. The VOA seeks to promote an increased understanding of the United States among the peoples of the world and to strengthen cooperative international relations.

ADDR.: Voice of America, U.S. Information Agency, 330 Independence Av., S.W. Washington 25, D.C. – L.P.: Dir. US Information Agency: George V. Allen. Dir. Broadc. Sce.: Henry Loomis. Prgr. Mgr.: Barry Zorthian. Engineering Mgr.: Edgar Martin. Dir. TV Sce.: Romney Wheeler.

STATIONS:

KCBR (50/100/200 kW), Columbia Broadcasting System, Inc., Delano, California.
KNBH (50/100/200 kW), National Broadcasting Company, Inc., Dixon, California.
WBOU (50 kW), National Broadcasting Company, Inc., Bound Brook, New Jersey.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Brentwood, New York.
WDSI (50 kW), Columbia Broadcasting Company, Inc., Wayne, New Jersey.
WGEO (25/50/100 kW), General Electric Company, Schenectady, New York.
WLWO (110 kW), Crosley Broadcasting Corporation, Bethany, Ohio.

VOA USIA FREQUENCY LIST

Station	kc/s	m	Station	kc/s	m	Station	kc/s	m
KNBH	6040	49.67	WLWO	15165	19.78	KCBR	17815	16.84
KNBH	6145	48.82	WDSI	15200	19.74	WLWO	17830	16.83
			WDSI	15205	19.73	WDSI	17830	16.83
KNBH	9515	31.53	WLWO	15250	19.67	WDSI	17875	16.78
KNBH	9590	31.28	KNBH	15250	19.67	WLWO	17880	16.78
KCBR	9600	31.25	WDSI	15270	19.65			
WDSI	9650	31.09	WBOU	15270	19.65	KCBR	21460	13.98
WBOU	9650	31.09	KNBH	15285	19.63	WLWO	21485	13.96
KCBR	9700	30.93	WLWO	15290	19.62	WDSI	21500	13.95
WBOU	9750	30.77	KCBR	15315	19.59	WDSI	21505	13.95
			WLWO	15330	19.57	KCBR	21525	13.94
WBOU	11710	25.61	WGEO	15330	19.57	WBOU	21540	13.93
KCBR	11715	25.61	WBOU	15330	19.57	WDSI	21555	13.92
WBOU	11740	25.55	WBOU	15440	19.43	WBOU	21570	13.91
WLWO	11790	25.45				WGEO	21590	13.90
WDSI	11830	25.36	WLWO	17710	16.94	WLWO	21610	13.88
KNBH	11870	25.27	WLWO	17740	16.91	WDSI	21650	13.86
WBOU	11870	25.27	KNBH	17760	16.89	WDSI	21690	13.83
WLWO	11900	25.21	WGEO	17760	16.89	WLWO	21730	13.81
KNBH	11900	25.21	KCBR	17770	16.88	WLWO	21735	13.80
WLWO	11970	25.06	WBOU	17780	16.87	KCBR	21740	13.80
			WDSI	17780	16.87			
WBOU	15130	19.83	WBOU	17785	16.87	KCBR	25630	11.70
KNBH	15150	19.80	KCBR	17785	16.87	WBOU	25950	11.56
WDSI	15155	19.80	WLWO	17795	16.86			

RELAY STATIONS:
For frequencies of the relay stations, refer to the individual countries: Germany, Greece, Dodecanese Islands, Great Britain, Tangier, Ceylon, Hawaii, Ryukyu Islands, and Philippines.

ANNOUNCEMENT:
Each program ends with these words spoken in English: "This program has come to you from the United States of America". The station identification is then announced in English.

INTERVAL SIGNAL:
Choir of brass playing a 10 note version of "Columbia, the Gem of the Ocean". This musical symbol is played at the beginning of a transmission, during station breaks, and at the conclusion of a transmission. At the beginning of a transmission the sign on announcement is followed by 3 minutes of musical symbol made up of alternate 5 seconds music and 5 seconds silence.

VERIFICATION by QSL-card. No return postage required.

FUTURE PLANS:
When the Voice of America's East Coast facility in the U.S. is completed in 1962, there will be six 500 kW short-wave transmitters as well as six 250 kW's, not only to permit better reception in Europe and parts of Africa, but also to improve the quality of our signals rebroadcast by our relay bases in Europe and the Mediterranean.

To Europe

Language	Time	U.S. m.b.	Relay Bases
ALBANIAN	*05.30–06.00	—	31, 41
	20.00–20.30	13, 19	16, 19, 25, 31, 41, 379
ARMENIAN	14.30–15.00	11, 13, 16	13, 16, 19, 25
BULGARIAN	04.15–04.30	19, 25, 31, 49	19, 25, 31, 41
	16.30–17.00	11, 13, 16	13, 16, 19, 25, 31
	*18.00–18.30	—	41, 379
	19.30–20.00	11, 13, 16, 19	19, 25, 31, 41, 49, 379
CZECH-SLOVAK	05.30–06.00	19, 25, 31, 49	19, 25, 31, 41
	20.30–21.00	11, 13, 16	19, 25, 31, 41, 49
	22.30–23.00	13, 16, 19	19, 25, 31, 41, 49, 251
ESTONIAN	*02.00–02.30	—	25, 31, 41, 49
	18.30–19.00	11, 13, 16	13, 16, 19
	*20.00–20.30	—	251
FRENCH	*04.45–05.00	—	31, 49, 251
	*05.15–05.30	—	25, 31
	*05.45–06.00	—	25, 49, 251
	20.00–20.30	11, 13, 16, 19	—
	21.30–21.45	13, 19	25, 31
	*22.30–22.45	—	19, 25, 31, 1734
GEORGIAN	14.00–14.30	11, 13, 16	13, 16, 19
GERMAN	17.15–17.30	11, 13, 16	—
	19.15–19.30	11, 13, 16	1734
	21.45–22.00	13, 19	25, 31
	*22.45–23.00	—	19, 25, 31, 1734
GREEK	17.15–17.30	13, 19	16, 379
	21.00–21.15	13, 19	25, 31, 379
HUNGARIAN	06.00–06.30	19, 25, 31, 49	19, 25, 31, 41, 49
	18.30–19.00	11, 13, 16, 19	16, 19, 25, 31, 41, 49
	21.15–21.30	—	19, 31, 25, 41
	21.30–22.00	13, 16, 19	19, 25, 31, 41, 49
	*22.30–23.00	—	379
	*23.00–23.30	—	19, 25, 31, 41
LATVIAN	*02.00–02.30	—	25, 31, 41, 49
	17.30–18.00	11, 13, 16	13, 16, 19, 25
	*20.30–21.00	—	251
LITHUANIAN	*03.00–03.30	—	25, 31, 41, 49
	16.30–17.00	11, 13, 16	13, 16, 19, 25
	*18.30–19.00	—	251
POLISH	05.00–05.30	19, 25, 31, 49	19, 25, 31, 41, 49
	19.30–20.00	11, 13, 16	16, 19, 25, 31, 41, 251, 1734
	21.30–22.00	13, 16, 19	19, 25, 31, 41, 251, 1734
	*23.00–23.30	—	19, 25, 31
RUMANIAN	04.00–04.15	19, 25, 31, 49	19, 25, 31, 41, 49
	17.30–18.00	11, 13, 16, 19	13, 16, 19, 25, 31, 379
	20.30–21.00	13, 16, 19	19, 25, 31, 41, 49, 379
RUSSIAN	02.30–03.00	19, 25, 31, 49	19, 25, 31, 41, 49
	*03.30–04.00	—	19, 25, 31, 41, 49
	*04.30–05.00	—	19, 25, 31, 41, 49
	*06.30–07.00	—	13, 16, 19, 25, 31
	15.00–15.30	11, 13, 16	13, 16, 19, 25
	*16.00–16.30	—	13, 16, 19, 25

Languages	Time	U.S. m.b.	Relay Bases
RUSSIAN	*17.00–17.30	—	13, 16, 19, 25, 31
	18.00–18.30	11, 13, 16	13, 16, 19, 25, 31
	*19.00–19.30	—	16, 19, 25, 31, 41, 49
	20.00–20.30	11, 13, 16, 19	19, 25, 31, 41, 49
	*21.00–21.30	—	19, 25, 31, 41, 49, 1734
	22.00–22.30	13, 16, 19	19, 25, 31, 41, 49
SERBO-CROAT	03.30–03.45	19, 25, 31, 49	—
	04.30–04.45	—	49, 251
	*05.00–05.15	—	25, 31
	*05.30–05.45	—	25, 251
	19.00–19.30	11, 13, 16, 19	16, 19, 25, 251, 379
	21.00–21.15	13, 16, 19	25, 31, 49, 251
	*22.15–22.30	—	379
SLOVENE	21.15–21.30	13, 16, 19	25, 31, 49, 251
UKRAINIAN	*03.00–03.30	—	19, 25, 31, 41
	15.30–16.00	11, 13, 16	13, 16, 19, 25

To Near- and Middle East

Language	Time	U.S. m.b.	Relay Bases
ARABIC	03.30–04.00	19, 25, 31, 49	—
	04.00–05.15	—	19, 25, 31, 41, 238
	*05.15–05.45	—	19, 25, 31, 41, 238
	05.45–06.00	—	19, 25, 31, 41, 238
	*06.30–07.00	—	19
	17.00–17.30	—	19, 25, 31, 41, 238
	17.30–18.00	13, 19	19, 25, 31, 41, 238
	18.00–18.30	—	19, 25, 31, 41, 238
	18.30–18.45	13, 19	19, 25, 31, 41, 238
	18.45–19.00	—	19, 25, 31, 41, 238
	19.30–19.45	13, 19	19, 25, 31, 41, 238
	19.45–20.30	—	19, 25, 31, 41, 238
	20.30–21.00	13, 19	19, 25, 31, 41, 238
PERSIAN	16.00–16.30	11, 13, 16	13, 16, 238
	*17.00–17.30	—	16
TURKISH	16.30–17.00	13, 19	13, 16, 19, 31, 41, 238
	*17.30–18.00	—	16

To South Asia

BENGALI (To Pakistan)	14.30–15.00	11, 13, 16	11, 13, 19, 25
BENGALI (To India)	13.30–14.00	11, 13, 16	11, 13, 19, 25, 41
HINDI	15.30–16.00	11, 13, 16	11, 13, 25, 41, 49
MALAYALAM (Tues., Thurs., Sat.)	14.30–14.45	11, 13, 16 (Sat. only)	41, 49
	14.45–15.00	—	41, 49
TAMIL (Sun., Mo., Wed., Fri.)	14.30–14.45	11, 13, 16 (Sun. only)	41, 49
	14.45–15.00	—	41, 49
URDU	15.00–15.30	11, 13, 16	11, 13
	*16.00–16.30	—	25

To Far East

Language	Time	U.S. m.b.	Relay Bases
AMOY	10.00–10.30	25, 31, 49	19, 31
	*11.00–11.30	—	13, 19, 25, 31
	*14.00–14.30	—	13, 19, 263
	*14.30–15.00	—	19
BURMESE	13.30–14.00	25, 31, 49	13, 19, 263
	*15.30–16.00	—	13, 19
CANTONESE	10.30–11.00	25, 31, 49	—
	12.00–12.30	—	13, 19, 25, 31, 49, 263
	*13.00–13.30	—	13, 19, 25, 31
	*14.00–14.30	—	19, 25, 31
	*15.00–15.30	—	13, 19, 31, 263
	22.30–23.00	11, 13, 16	19, 25
	*23.30–00.00	—	19, 25
INDONESIAN	11.00–12.00	25, 31, 49	19, 49
	*13.00–14.00	—	19, 49
JAPANESE	21.30–22.00	13, 16, 19	31, 41
	*00.30–01.00	11, 13, 16	—
	*10.30–11.00	—	41
	*11.30–12.00	—	41
KOREAN	13.00–13.30	25, 31, 49	19, 254
	*14.00–14.30	—	19
	22.30–23.00	13, 16	19, 41

Language	Time	U.S. m.b.	Relay Bases
MANDARIN	11.30–12.00	25, 31, 49	13, 19, 25, 31, 254, 263, 326
	*12.30–13.00	—	19, 25, 31, 49, 254
	*13.30–14.00	—	19, 25, 31, 254
	14.30–15.00	25, 31, 49	13, 19, 25, 31, 254, 263
	*15.30–16.00	—	19, 25, 31, 254
	22.00–22.30	11, 13, 16	19, 25, 31, 41
	*23.00–23.30	—	19, 25
	*00.30–01.00	—	16, 19, 25
RUSSIAN	09.30–10.00	25, 31, 49	19, 25, 41, 254
	*12.00–12.30	—	19, 25, 254
	15.00–15.30	19, 25, 31, 49	19, 25, 254
	*20.30–21.00	—	16, 19
UKRAINIAN	08.30–09.00	25, 31, 49	—
	*10.30–11.00	—	19, 25, 254
VIETNAMESE	12.30–13.00	25, 31, 49	19, 263
	*15.30–16.00	—	263
	23.30–00.00	11, 13, 19	19, 25

* Repeat of last previous origination.

Prgr's. in English (World Wide Schedule)

	U.S. (kc/s)	RELAY (kc/s)
TO EUROPE		
03.00–03.30	5955, 9650, 11830	9615 - 11870 T
04.00–04.30 (R)	—	1196 - 6140 M, 9615 - 11870 T
05.00–05.30 (R)	—	
06.00–06.30	11970, 15165	
07.00–07.30 (R)	—	15380 - 17830 T
08.00–08.30 (R)	—	
13.00–13.30	17795, 21730, 25950	15425 - 17855 T
14.00–14.30	17795, 21650, 25950	11760 - 15270 C, 15425 T
15.00–15.30 (R)	—	
16.00–16.30	—	
16.00–16.30	15155, 21500	15285 S, 15330 M, 15425 T
17.00–18.30	15155, 21500	173 - 1196 - 3980 - 6185 M, 9520 S, 9620 T
18.30–19.15	15155, 21500	173 - 3980 - 6185 M, 9520 S, 9620 T
19.15–20.00 (M)	15155, 21500	3980 - 6185 M, 9520 S, 9620 T
20.00–20.15		
20.15–21.00 (M)		
21.00–22.00		
22.00–22.30 (R)	—	173 - 1196 - 3980 - 6185 M, 9520 S, 9620 - 11870 T
23.00–23.30	11830, 15130, 17830	173 M, 9615 - 11875 T
TO WEST AFRICA		
05.00–05.30 (R)	9700, 11790	—
06.00–06.30	9700, 11790	15210 M
07.00–07.30 (R)	9700, 11790	15210 M
17.00–19.15	17740, 21610	—
19.15–20.00 (M)		
20.00–20.15		
20.15–21.00 (M)		
21.00–22.30	17740, 21610	15205 M
TO MIDDLE EAST & EAST AFRICA		
		Relay Bases
03.00–03.30		9545 - 11715 M, 9740 11765 T
04.00–04.30 (R)		9545, 11715 M
05.00–05.30 (R)		9545, 11715 M
06.00–06.30		1259 - 7125 - 9530 C 11715 M, 9740 - 11765 - 15320 T
07.00–07.30 (R)		15320 T
08.00–08.30 (R)		15320 - 21705 T
13.00–13.30		15290 - 21455 - 25880 T
14.00–14.30		11760 - 15270 C, 15205 M, 15295 - 21455 - 25880 T
15.00–15.30 (R)		11760 - 15270 C, 15205 M, 15295 T
16.00–16.30		7205 - 9530 C, 11760 - 15205 M 15295 - 25880 T
17.00–18.00		11760 - 15205 M, 21455 T
18.00–19.15		11760 - 15205 M
19.15–20.00 (M)		
20.00–20.15		
20.15–21.00 (M)		
21.00–21.30		1259 - 7205 - 9530 C, 11760 M, 15295 T
21.30–22.30 (R)		1259 - 7205 - 9530 C, 11760 M
TO SOUTH ASIA		
01.00–01.30		11835 Col., 17780 P
02.00–02.30		

	Relay Bases
03.00–03.30	11835 Col.
12.00–13.00	6075 - 7110 - 11875 Col., 21455 - 25880 T
13.00–13.30	6075 - 7110 - 11875 Col., 15185 P 21455 - 25880 T
13.30–14.00	6075 Col.
14.00–14.30	6075 - 7110 - 11875 Col. 15185 P, 21455 - 25880 T
15.00–15.30	6075 - 7110 11875 Col. 15185 P (to 1515)
15.15–16.00 (M)	15185 P
16.00–16.30	6075 - 7110 Col. 15185 P, 25880 T
16.30–17.15 (M)	15185 P
16.30–17.00 (R)	6075 - 7110 - 11875 Col.
17.00–18.00	6075 - 7110 - 11875 Col. 21455 T

To Far East

	U.S. (kc/s)	Relay Bases (kc/s)
09.00–09.30	6185 - 9600 - 11870	11775 - 15150 H 7160 - 9615 - 9745 - 11960 - 15380 OK 11790 - 15125 - 15210 - 15250 - 15335 P
10.00–10.30 (R)	—	11775 - 15150 H 7160 - 9745 - 11960 - 15380 OK 11790 - 15185 - 15335 P
11.00–11.30 (R)	—	9650 - 11775 H 1180 - 7160 - 9745 - 11960 - 15380 OK 920 - 11790 - 15335 P
12.00–13.00	6145 - 9515 - 11900	9650 - 11775 H, 7160 - 9745 OK 920 - 11790 - 15335 P
13.00–13.30	6145 - 9515 - 11900	9650 - 11775 H 7160 - 9745 - 11960 OK 920 - 1140 - 11790 - 15185-15335 P
13.30–14.00	6145 - 9515 - 11900	9650 - 11775 H, 7160 - 9745 OK 920 - 11790 - 15335 P
14.00–14.15	6145 - 9515 - 11900	9650 - 11775 H 1180 - 7160 - 9745 - 11960 OK 920 - 6125 - 11790 - 15185 - 15335 P
14.15–14.30	6145 - 9515 - 11900	1180 - 11960 OK, 15185 P
14.15–15.00 (M)	—	
15.00–15.15 (R)	—	9650 - 11775 H, 7160 - 9745 OK 920 - 6125 - 11790 - 15335 P
15.15–16.00 (M)		
16.00–16.30	6185 - 9600 - 11870 - 15285	9650 - 11775 H 1180 - 7160 - 9670 - 9745 - 11960 - 15380 OK 920 - 1140 - 6125 - 11790 - 11890 - 15185 - 15210 - 15250 - 15335 - 21655 P
21.00–21.30	17785 - 21740 - 25630	9770 - 11765 P
22.00–22.30 (R)	—	9770 P
23.00–23.30	17770 - 21740 - 25630	7160 OK 11790 - 11895 - 15200 - 15275 P
00.00–00.30 (R)	17770 - 21740 - 25630	15215 OK, 11790 - 11895 - 15200 - 15250 15275 - 17750 P
01.00–01.30	17770 - 21740 - 25630	15215 OK, 11790 - 15200 - 15250 - 15275 17750 - 17780 P

To Latin America

	U.S. (kc/s)
23.00–00.00	15200 - 15330
00.00–02.00	15200 - 15290 - 15330 17830

Transmitter Abbreviations: B - BBC London. C - Courier (Rhodes). Col - Colombo. H - Honolulu. M - (Munich. OK - Okinawa. P - Philippines (Manila & North Luzon). T - Tangier.
Program Abbreviations: M - Music USA. R - Repeat of last previous origination.
News programs are transmitted during the first 15 minutes of the hour.

ARMED FORCES RADIO and TELEVISION SERVICE

ADDR.: Office of Armed Forces Information and Education, Washington 25, D.C.
This office exercises overall policy control of the Armed Forces Radio and Television Service. This mission of AFRTS is to keep U.S. sce. men and women stationed outside the States the best informed service personnel in the world on current events. **All broadcasts are in English.** News, sports and other timely matter is beamed overseas directly by twelve powerful tr. on the U.S. Atlantic and Pacific coasts. These s.w. broadcasts serve the overseas radio stations, which rel. them locally. Prgrs. other than news and locally produced prgrs. are derived directly from the U.S. Commercial Networks. N. is compiled directly from the wires of A.P., and U.P.I. (United Press International). AFRS presents regular s.w. prgrs. from both Los Angeles and New York City, using the transmitters of the V.O.A.

EUROPEAN SERVICE (from New York).
ADDR.: Armed Forces Press, Radio and Television Service, 250 West 57th Str., New York 19, N.Y. – **L.P.:** Lt. Colonel J. N. Bornholdt, Officer in charge.
D. PRGR.: 50 kW. – Period: All year.

Call	kc/s	m	Target area	h. of tr.
WBOU6	15270	19.60	Caribbean	17.00–22.45
MUN	15385	19.52	Mid. East	14.30–22.45
WBOU5	17780	16.87	Europe	14.30–22.45
WDSI1	21650	13.91	Europe	14.30–22.45

ANN.: "This is the United States Armed Forces Radio Service in New York. The Voice of Information and Education". – V. by QSL-card. – Prgr. sched. published seasonally are available on request by letter.
N.: 15.00, 16.00*, 17.00, 18.00*, 19.00, 20.00*, 21.00, 22.00. (*=Mo.-Fri.). **"Dateline New York"** (conference period): D. 14.30–15.00.

PACIFIC SERVICE (from Los Angeles).
ADDR.: U. S. Armed Forces Radio & Television Service, Short Wave Program Branch, 1016 No. McCadden Place, Los Angeles 38, Cal. – **L.P.:** Officer in Charge: Lt. Col. J. H. Rose, USAF. Deputy Officer in Charge: R. J. de la Torre. Chief, Prgr. Sce.s Division: Lt. Col. G. Boepple, USA. Chief Shortwave Prgr. Branch: J. J. Brown, Jr.
DAILY PRGR.: 23.00–15.00.

Call	kc/s	m	kW	Beam	h. of tr.
KCBR-5	9570	31.35	100	Alaska/Aleutians	06.30–11.30
KCBR-2	9700	30.93	50	Japan/Korea	07.00–15.00
KCBR-3	11715	25.61	50	Japan/Korea	07.00–15.00
KCBR-4	15315	19.59	100	Philippines/Marianas	06.00–08.00
KCBR-5	15315	19.59	100	Caribbean	12.00–15.00
KCBR-3	17815	16.84	50	Alaska/Aleutians	23.00–06.30
KCBR-2	21460	13.98	50	Japan/Korea	23.00–06.30
KCBR-1	21740	13.80	200	Philippines/Marianas	02.00–06.00

N.: Hourly from 23.00–14.00 and at 14.45 except during broadcast of sport contests. – **Conference Period:** D. 23.05, 07.05. – **Armed Forces Digest:** Mo.-Fri.: 23.30, Tues.-Sat.: 06.15, 14.30. – **Newsmakers:** Tues.-Sat. 02.00. – **Boxing:** Thurs. & Sat.: 02.05, 13.15.
ANN.: At the end of prgr.: "This is AFRTS Shortwave at Los Angeles." Hourly: "This is the United States Armed Forces Radio and Television Service, the voice of information and education, broadcasting on VOA tr. KCBR at Delano, Cal." – V. by QSL-card. – Freq's are announced thirty minutes past each hour.
PRRG. SCHED.: 3 times per year. May be obtained by request to the addr.: AFTRS Shortwave Program Branch.

A.F.R.T.S.'s OUTLETS: BROADCASTING
Total outlets: 181. Radio 80, TV with studios 24, FM 2, Carrier Current 20, Audio System 45, TV rel. 5, s.w. 5.
Abbreviations: A: Army – AFKN: American Forces Korea Network – AN: Alaska Network – FEN: Far East Network – N: Navy – RCAF: Royal Canadian Air Force – AF: Air Force – RCA: Royal Canadian Army. A = Army Fo.: Fort – [1]) Carrier Current.
The greater majority of the stations operate from 06.00–24.00 L.T.

RADIO-OUTLETS:

ALASKA	sce.	kc/s	kW
Adak	N	570	0.25
Champion	AF	570	0.25
Elmendorf	AF	850	0.25
Eilson	AF	790	0.25
Fo. Greely	A	980	0.25
Fo. Richardson	A	1360	0.25
King Salmon	AF	790	0.25
Kodiak	N	960	0.25
Ladd	AF	620	0.25
Nome	AF	590	1
Whittier	A	980	0.25
Wildwood	A	1520	0.1
CANADA			
Fo. Churchill	A	1230	0.1

	sce.	kc/s	kW
CARIBBEAN AREA			
San Juan	A	1470	0.05
Cp. Losey[1])	A	1470	0.05
Cp. Bruney[1])	A	1470	0.05
Fo. Clayton	A	790	5
Fo. Gulick	A	1420	1
Trinidad	N	570	0.25
Ramey	AF	780	0.05
Guantanamo	N		0.25
NORTH AFRICAN AREA			
Libya			
Tripoli	AF	1510	1
Morocco			
P. Lyauteau	N	1512.5	0.1

	sce.	kc/s	kW
Sidi Slimane	AF	1594	0.1
Nouasseur	AF	1594	0.1
Rabat	AF	1594	0.1
Ben Guerir	AF	1594	0.1
MIDDLE EAST AREA			
Eritrea			
Asmara	A	1500	0.25
Saudi Arabia			
Dhahran	AF	1215	0.25
Diyarbakir	AF	1570	0.25
Crete			
Iraklion	AF	1570	0.25
Iran			
Teheran	A	630	0.25
EUROPE			
(see Germany)			
FAR EAST AREA			
Japan (FEN)[1]=Relay.			
Tokyo	AF	810	10
Tokyo s.w.	AF	6160 / 11750 / 15257	10
Tokyo s.w.	AF	3800	0.25
Hokkaido	AF	1590	0.25
Misawa	AF	1580	0.25
Nagoya[1])	AF	1590	10
Iwakuni	AF	1580	1
Kyushu	AF	1550	2.5
Sasebo	AF	1570	0.25
Nara	AF	1510	0.25
Ashiya	AF	1570	0.25
Iwo Jima	AF	1500	0.1
Ryukyu Isl.			
Okinawa	AF	650	1
So. Korea (AFKN)[1])=Relay.			
Taegu	A	900	1
Pusan	A	1250	1
Seoul	A	560	5
Seoul s.w.	A	6875	0.2
Uijongbu[1])	A	1150	0.25
Kuma-Ri	A	1400	1
Kunsan	A	1440	0.25
Osan	A	1060	0.25
Taiwan (see also Taiwan)			
Taiwan	N	1560	1
Taiwan s.w.	N	7215	1
Philippines			
Clark AFB	AF	1220	1
Subic Bay	N	1520	0.25
Sangley Point	N	1300	0.25
NORTH ATLANTIC			
Argentia	N	1480	0.25
Canada			
Goose Bay	RCAF		
N. Foundland			
St. Johns	AF	1480	0.05
Stephenville	AF	1490	0.05
Azores			
Terceira	AF	1500	0.25
Greenland			
Narssarssuak	AF	900	1
Sondrestrom	AF	1420	0.25
Thule AFB	AF	1425	0.05
Iceland			
Keflavik	AF	1484	0.25
PACIFIC AREA			
Eniwetok, M.I.	AF	1385	0.25
Johnston Isl.	AF	1250	0.25
Kwajalein	N	1220	0.25
Midway Isl.	N	900	0.25

PRIVATE STATIONS

Number of Radio Stations in the U.S.A. as of June 1, 1959.	Total Authorized	Licensed	Operating
A.M. Comm.	3513	3351	3406
F.M. Comm.	784	596	636
F.M. Educational	166	152	173

Receivers in use: 150 millions.

EDUCATIONAL STATIONS (non. Comm.

ADDR.: Office of Education, Washington 25, D.C. – **L.P.:** Chief Radio-Television: Dr. Franklin Dunham.

Educational and Television Center: Coliseum Bldg., Columbus Circle, New York City, N.Y.

NATIONAL ASSOCIATION OF EDUCATIONAL BROADCASTERS: (NAEB.)

The national independent professional association, which since 1925 has represented the interests and needs of educational television and radio broadcasters, represents appr. 75% of the educational stations and production centers of the United States (appr. 90% exc. those identified as theological or religious st.).

ADDR.: Executive Office: 14 Gregory Hall, Urbana, Illinois.

L.P.: Exec. Dir.: Dr. Harry J. Skornia. Associate Dir.: H. E. Hill.

Stations: 148 educational institutions and organizations owning and operating a total of 154 educational radio and 36 T.V.st's.

Activities and Functions: The NAEB is the Association of American institutions operating educational, cultural and public sce. radio and TV st.'s and production centers. Its services include workshops, seminars, regional and national annual conferences, personnel-upgrading services, and employment agency, legal, research and other operational consultant services, and numerous publications in radio and T. V., incl. a monthly Newsletter and a bi-monthly journal available by subscription; abroad at $ 5.00 per year. It has an exchange-advisory membership relationship with most national educational organizations. The NAEB also operates a radio network which duplicates via tape and distributes to memberstations ten hours of programming per week. At present there are some 82 stations in this network. Exchanges of programs with other nations are welcomed. It also actively cooperates with various international organizations (European Broadcasting Union, UNESCO, etc.), and the national systems of various other countries (R.T.F., BBC, RAI, CBC and others), exchanging prgrs., publications and personnel with the broadcasting organizations of over 20 nations in Europe, Asia, Australia and Africa, as well as those in No., C. and So. America. According to federal communications commission regulations, non-comm. educational FM stations have no restrictions on transmission time:

COMMERCIAL STATIONS

Each station is required to operate at least two-thirds of the hours it is authorized to operate between 6:00 AM and 6:00 PM, and two thirds of the hours it is authorized to operate between 6:00 PM and midnight. If authorized to operate unlimited time, it may operate for the entire 24 h.

RADIO STATION KGEI INC., The Voice of Friendship.

ADDR.: Box 887, Belmont, Cal.

L.P.: Pres.: M. R. Steffins. General Manager: M. R. Steffins Jr. Operations Mgr.: H. van Dyke. Dir. Tec.: Don Carlos Smith.

STATION: KGEI 17795 kc/s 16.86 m 50 kW. Directional Latin America: D. 00.00–04.00.

English: D. 00.00–01.00. **Spanish:** D. 01.00–04.00.

ANN.: English: "This is the Voice of Friendship International Broadcast Station KGEI, San Francisco, California, the United States of America, transmitting on a frequency of 17795 megacycles in the *16 meter band and dedicated to the purpose of promoting good will,* better understanding and friendship among the peoples the Americas. This is the Voice of Friendship". – **INT.-SIG.:** Signs off with the National Anthem. – **V.** by QSL-cards. – **PUB.:** Prgr. sched. sent to all requesting.

WORLD WIDE BROADCASTING SYSTEM

ADDR.: One East 57th Street, New York 22, N.Y. – **Cable:** "Shortwave". – **L.P.:** Pres. and Dir. Gen.: Walter S. Lemmon. Dir. English & Scandinavian Prgr.: J. Fillinger. Dir. Spanish Prgr.: G. Caram. Dir. Portuguese Prgr.: G. Coelho.

FOREIGN SERVICE

STATIONS: WRUL – 1 (50 kW) – 2 (50 kW) – 3 (50 kW) – 4 (20 kW).

Operating frequencies at different times of the year:

kc/s	m	kc/s	m	kc/s	m	kc/s	m
9530	31.48	15285	19.63	17750	16.90	21460	13.98
11780	25.47	15380	19.51	17755	16.90	21500	13.95
15230	19.70	17710	16.94	17885	16.78		

EUROPEAN SCE. in English, Swedish, Norwegian: W. 20.00–21.15. Sun. 19.00–22.00.

N. in English: Mo.–Fri. 20.45. – **Swedish:** Mo., Wed., Thurs. 21.00. – **Norwegian:** Tues., Fri. 21.00. – **Sun.: Religious Features.**

LATIN AMERICAN SCE. in English, Portuguese, Spanish: 23.00 (Sun. 22.15)–01.45.

English: 23.00 (Sun. 22.15)–24.00. – **Portuguese:** D. 00.00–00.30. – **Spanish:** 00.30–01.45.

ANN.: E.: "This is the World Wide Broadcasting System, International Radio Station WRUL – The Voice of Freedom – speaking to you directly from New York City USA". – **INT.-SIG.:** New World Symphony (by Dvorak). – **V.** by QSL-card and letter. – **PUB.:** Write for prgr.-sched.

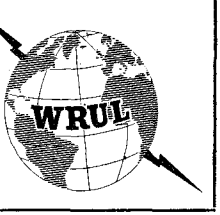
Listen to **WRUL** NEW YORK

"The Voice of Freedom"

Covers: Europe
Middle East
Africa
Latin America

For full details see U.S.A.

WORLD WIDE BROADCASTING SYSTEM, INC.
New York



AMERICAN BROADCASTING CO. (A Division of American Broadc., Paramount Theatres, Inc.). – **ADDR.:** 7 West 66th Str., New York 23. – **L.P.:** Acting Pres.: L. H. Goldenson. Exec. Vice Pres.: J. G. Riddell. Vice Pres. in charge of the Radio Network: M. J. Foster.
Owned and operated stations: WABC+FM, New York: 770 kc/s 50 kW. – KABC+FM, Los Angeles: 790 kc/s 5 kW. – KGO+FM, San Francisco: 810 kc/s 50 kW. – WXYZ+FM, Detroit: 1270 kc/s 5 kW. – KQV, Pittsburgh: 1410 kc/s 5 kW.
COLUMBIA BROADCASTING SYSTEM: ADDR.: 485, Madison Avenue, New York, 22. – **L.P.:** Chairman of the Board of Directors: William S. Paley. Pres.: F. Stanton. Secr.: J. F. Brauner. Vice Pres. of Inf., Pres.: E. K. Meade.
Owned and operated stations: 50 kW: WCBS, New York: 880 kc/s – WBBM, Chicago: 780 kc/s – KCBS, S. Francisco: 740 kc/s – KMOX, St. Louis: 1120 kc/s – KNX, L. Angeles: 1070 kc/s. – 5 kW: WEEI, Boston: 590 kc/s. – WCAU 1210 kc/s 50 kW, Philadelphia.
V. by QSL-card or letter.
NATIONAL BROADCASTING COMPANY, INC.: ADDR.: 30 Rockefeller Plaza, New York 20, N.Y. – **L.P.:** Chairman of the Board: Robert W. Sarnoff. Pres.: R. E. Kintner. Exec. Vice Pres., Adm.: J. M. Clifford. Exec. Vice Pres., NBC-TV Network: W. D. Scott. Dir. Intern. Operations: A. Stern. Mgr., Facilities, Intern. Operations: Richard L. Berman.
Owned and operated stations: WRCA, WRCA-FM, WRCA-TV, New York; WKNB, WNBC-TV, Hartford-New Britain, Conn.; WRC, WRC-FM, WRC-TV, Washington, D.C.; WAMP, WFMP, Pittsburgh, Pa.; WMAQ, WMAQ-FM, WNBQ-TV, Chicago, Ill.; WRCV, WRCV-TV, Philadelphia, Pa.; KNBC, KNBC-FM, KRCA(TV), Los Angeles, Calif.

★ PUERTO RICO ★
Commonwealth of – (U. S. Territory)

L.T.: GMT÷4 h. – **Pr. L.:** Spanish, English. – **Po.:** 2.314.000. – **Revrs.:** 1.400.000.
Estado Libre Asociado de Puerto Rico – Broadcasters Association of Puerto Rico, P. V. Box 10144, Santurce.
Commercial, except WIPR, WIVV. – St.'s allowed to operate as many hours as they wish.

kc/s	Call	kW	kc/s	Call	kW	kc/s	Call	kW
1) 550	WPAB	5/1	11) 990	WIRA	10	21) 1300	WTIL	1
2) 580	WKAQ	5	12) 1070	WMIA	0.5	22) 1320	WRIO	5/1
3) 600	WAEL	1	13) 1110	WVJP	0.25	23) 1340	WGRF	0.25
4) 680	WAPA	10	14) 1140	WITA	0.5	24) 1370	WIVV	1
5) 710	WKJB	1/0.5	15) 1150	WORA	1	25) 1400	WHOA	0.25
6) 740	WIAC	10	16) 1170	WLEO	0.25	26) 1420	WEUC	1
7) 810	WKVM	25	17) 1230	WNIK	0.25	27) 1450	WNEL	0.25
8) 850	WABA	0.5	18) 1240	WALO	0.25	28) 1490	WMDD	0.25
9) 910	WPRP	5	19) 1260	WISO	1	29) 1520	WWWW	0.25
10) 940	WIPR	10	20) 1280	WCMN	1	30) 1560	WENA	0.25
FM: 9) 104.7 mc/s			15) 97.5 mc/s.			31) 1590	WXRF	1

D. PRGR.: 10.00–approx. 03.00 exc. where indicated.

1) **P. R. American Broadc. Co.,** P. O. Box 786, Poncé. – **L.P.:** Gen. Mgr.: A. Gianenqz-Aquayo. – **D. Prgr.:** 10.00–02.00.
2) **El Mundo Broadc. Corp.,** Box 9007, Santurce.
3) **R. WAEL,** Box 297, Mayaguez. – **L.P.:** Dir. Gen.: M. Acosta.
4) **R. WAPA,** Box 4563, S. Juan. – **L.P.:** Dir. Gen.: S. Quinones. –
5) **R. WKJB,** Box 1293, Mayaguez. – **L.P.:** Dir. Gen.: J. A. Bechara
6) **R. St. WIBS,** Box 4504, Santurce. – **L.P.:** Gen. Mgr.: T. Muniz. –
7) **American Colonial Broadc. Corp.,** Box 4189, S. Juan.
8) **R. WABA,** Box 188, Aguadilla. – **L.P.:** Gen. Mgr.: F. B. Velez. –
9) **Voice of P.R.,** Box 430, Poncé. – **L.P.:** Gen. Mgr.: R. de Arellano. –
10) **Go. Station,** Apt. Postal 306 Hato Rey, Av. Hostos, Esquina Tons Soto, Hato Rey. – **L.P.:** Dir. Gen.: R. Delgado. Dir. Tec.: R. Rodriguez Santiago. – **D. Prgr.:** 11.00 (Sun. 12.00)–02.15. Nat. Music: Sun. 00.30–01.00. N.: 14.00, 16.00, 19.00, 22.00. – **ANN.:** "WIPR, la emisora del Pueblo de Puerto Rico, en San Juan, Puerto Rico". **V.** by QSL-card. – **FM:** 89.7 mc/s.
11) **WPRA, Inc.,** Box 869, Mayaguez. – **L.P.:** Gen. Mgr.: E. Camara de Ramos. – **D. Prgr.:** 24 h.
12) **Abacoa Broadc. Corp.,** Box 126, Caguas. – 09.30–04.00.
13) **Borinquen Broadc. Corp.,** Box 207, Caguas. – **D. Prgr.:** 12.00–03.00.
14) **Electronic Enterprises Inc.,** Box 2792, S. Juan. – **D. Prgr.:** 04.00–16.00. Mo. through Sun.
15) **Radio Americas Corp.,** Box 43, Mayaguez. – 10.00–02.00.
16) **Poncé Broadc. Corp.,** Apt. 1526, Poncé. – **L.P.:** Gen. Mgr.: C. Cordero. Dir. Tec.: J. H. Conesa. – **D. Prgr.:** 10.00–03.00. – **V.** by QSL-card. – **F.FL.:** Tr. in Youco 1550 kc 0.25 kW.
17) **Arecibo R. Corp.,** Box 1075, Arecibo. – **L.P.:** Dir. Gen.: L. E. Freyre. – **D. Prgr.:** 10.00–03.00. – **V.** by letter. R.p.
18) **R. WALO,** Humacao.
19) **Emisora WISO,** Box 2023, Poncé.
20) **Caribbean Broadc. Corp.,** Box 7, Arecibo.
21 **Mayaguez R. Corporation,** Box 1346, Mayaguez.
22) **Master Broadc. Corp.** Box 335, Hato Rey. – 10.00–04.00.
23) **Jaicoa Broadc. Corp.,** Box 863, Aguadilla.
24) **Calvary Baptist Mission of Puerto Rico,** Box 338, Viques. – **V.** by letter.
25) **Continental Broadc. Corp.,** Box 168, Hato Rey. – **D. Prgr.:** 10.30–05.00.
26) **Catholic University of Puerto Rico,** Poncé.
27) **Inter American Radio Corp.,** Box 487, Caguas. – **D. Prgr.:** 10.00–02.00.
28) **WMDD Inc.,** Box 387, Fajardo. – **D. Prgr.:** 10.00–02.00.
29) **R. St. WWWW,** Box 935, Rio Piedras.
30) **Bayamon Broadc.,** Catano Bayamon Rd., Bayamon.
31) **Guayama Broadc. Co. Inc.,** Guayama. – **L.P.:** Gen. Mgr.: G. Cordero jr. – **D. Prgr.:** 10.30–03.00. – **V.** by QSL-card.

★ VIRGIN ISLANDS (American) ★

L.T.: GMT÷4 h. – **Pr. L.:** English. – **Po.:** 24.000. – **Revrs.:** 5.000.

ST. CROIX:

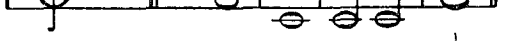
RADIO AMERICAN WEST INDIES, INC. (Comm.)
ADDR.: P. O. Box 831, Christiansted, St. Croix.
L.P.: Pres.: H. M. Higdon. – **WIVI** 1040 kc/s 288.5 m 0.25 kW: W. 09.45–04.00. Sun. 13.00–17.00. – **V.** by QSL-card. – **F.PL.:** 1 kW.

ST. THOMAS:

ISLAND BROADCASTING CO. Inc. (Comm.)
ADDR.: P. O. Box 538, Charlotte Amalie, St. Thomas. **L.P.:** Gen. Mgr.: N. Greer. – **D. Prgr.:** 10.00–04.00.

★ UNITED NATIONS ★

ADDR.: United Nations, New York. – **Cable:** UNATIONS, New York. – **L.P.:** Acting Head, Office of Public Information: Col. Alfred G. Katzin. Radio and Visual Sce's Division: Dir.: W. Gibson-Parker. R. Services: Chief: G. Obhrai. TV Services: Chief: W. S. Henson. TV-Radio Operations: M. Hayward.
INT.SIG: Music chime



ANN.: "This is the United Nations calling the Peoples of the World". This introductory phrase is used in all the official UN prgrs. in all of the languages concerned.
Message to listeners: The Radio and Visual Services Division is anxious to establish contact with as many listeners as possible and will gladly acknowledge all communications. All correspondents will receive a United Nations Radio Verification Card. Upon request, new correspondents are sent a prgr. sched. and some general information about the United Nations and the Specialized Agencies. Correspondence and requests for copies of the schedule of UN broadcasts should be adressed to the Director of the nearest UN Information Centre. These centres are located in Accra, Athens, Bangkok, Belgrade, Bogota, Buenos Aires, Cairo, Copenhagen, Djakarta, Geneva, Karachi, London, Manila, Mexico City, Moscow, New Delhi, Paris, Prague, Rangoon, Rio de Janeiro, Rome, Santiago, Sidney, Teheran, Tokyo, Washington D.C. Requests for copies of the sched. of UN broadcasts which can be heard in the United States should be adressed to: Radio and Visual Services Division, United Nations, New York.
BROADCASTS FROM THE UNITED NATIONS
No.We. Europe: Mo.–Fri.: 17.00–17.30 WBOU 21540 kc/s 13.93 m. **N. in Finnish, French, Flemish, Arabic.**
We., So. Europe: Mo.–Fri.: 17.45–18.00 WDSI 21690 kc/s 13.83 m. **N. in Arabic (Geneva), German** (Austria).
18.00–18.30: WLWO 15250 kc/s 19.67 m, WLWO 21485 kc/s 13.96 m WDSI 21690 kc/s 13.83 m, Tangier 11895 kc/s 25.22 m. **N. in Italian, Greek.**
18.30–18.45: WDSI 21690 kc/s 13.83 m, Tangier 11895 kc/s 25.22 m. **N. in English, Dutch, Portuguese.**
18.45–19.00: WDSI 21690 kc/s 13.83 m, WLWO 15250 kc/s 19.67 m, WLWO 21485 kc/s 13.96 m, Tangier 15405 kc/s 19.45 m, Tangier 11895 kc/s 25.22 m. **N. in Turkish.**
So. America and Caribbean: Mo.–Fri.: 23.00–24.00: WLWO 17710 kc/s 16.93 m, WLWO 15250 kc/s 19.67 m, WBOU 17740 kc/s 16.91 m, WBOU 11870 kc/s 25.27 m. **N. in Spanish, French** (Haiti), **English** (Jamaica).
M. East, So. Europe: Tues.–Sat.: 07.00–08.00 Tangier 21705 kc/s 13.82 m, Tangier 15230 kc/s 19.70 m. **N. in English, Persian, Amharic, Serbo-Croat, Hebrew, Italian.** – This programme is transmitted to Tangier from 03.30–04.30 on WLWO 15165 kc/s 19.78 m and WLWO 11970 kc/s 25.06 m.

Service to Malaya: Tues.–Sat.: 01.45–02.00 KCBR 25630 kc/s 11.70 m, KCBR 21740 kc/s 13.80 m. Prgr. in English.
So.We. Pacific: Tues.–Sat.: 08.00–08.15 KNBH 11875 kc/s 25.26 m, KNBH 15250 kc/s 19.67 m. Prgr. in English for Australia/N.Z.
Service to Japan: Tues.–Sat.: 09.00–09.15 KNEH 11900 kc/s 25.21 m, KNBH 9515 kc/s 31.53 m. Prgr. in Japanese.
So.Ea. Asia: Tues.–Sat.: 10.00–10.30 Manila 15210 kc/s 19.72 m. N. in English, Indonesian, Thai. – This prgr. is transmitted to Manila on KNEH 11900 kc/s 25.21 m and KNBH 9515 kc/s 31.53 m.
Far East: Tues.–Sat.: 10.30–11.00 Manila 15210 kc/s 19.72 m, Manila 11790 kc/s 25.45 m. N., Prgr. in Chinese. – This prgr. is transmitted to Manila on KNEH 11900 kc/s 25.21 m and KNBH 9515 kc/s 31.53 m.
Service to Ceylon: Tues.–Sat.: 11.45–12.00 Tangier 25880 kc/s 11.59 m, Tangier 21455 kc/s 13.98 m. N. in Sinhalese, English. – This prgr. is transmitted to Tangier on WLWO 17795 kc/s 16.86 m and WLWO 21735 kc/s 13.80 m.
Prgr.'s from the European Office of the United Nations, Geneva Switzerland: 13.45–14.10 (Mo.–Fri.) HED5 9545 kc/s 31.43 m. N. in Russian. – 14.30–14.45 (Sat. only) 17770 kc/s 16.88 m, 11905 kc/s 25.20 m. Weekly N. in Persian. – 19.20–19.35 (Mo.–Fri.) 11810 kc/s 25.40 m, 9575 kc/s 31.33 m, 6010 kc/s 49.92 m. N. in Arabic.

BROADCASTS OF MEETINGS OF THE GENERAL ASSEMBLY AND THE SECURITY COUNCIL WHEN IN SESSION
1. Europe, No. Africa, the Middle East (English/French):
15.30–17.45: AM Meeting WDSI 21690 kc/s 13.83 m
19.00–23.00 PM Meeting WDSI 17875 kc/s 16.79 m
20.00 02.15 WECU 11710 kc/s 25.62 m.
2. East, Central and We. So. America (Spanish):
15.30–17.45 AM Meeting WDSI 17830 kc/s 16.83 m
20.00–23.30 PM Meeting WDSI 17830 kc/s 16.83 m
23.00–02.15 WBOU 11870 kc/s 25.27 m.

Prgr.'s from the United Nations are broadcast by st's in more than 100 countries and territories. The times of these rebroadcasts may be ascertained from local newspapers or from the stations concerned. – Radio st's in the United States and Canada receive the prgrs. direct by line from the United Nations Headquarters, or by recording. – The Radio and Visual Services Division prepares and distributes recorded prgrs. in Amharic, Arabic, Burmese, Duri, Dutch, English, Finnish, French, German, Greek, Hebrew, Hindi, Indonesian, Italian, Persian, Portuguese, Pushtu, Serbo-Croat, Sinhalese, Spanish, Tagalog, Thai, Turkish and Urdu. – Letters from listeners all over the world are welcome. The Radio and Visual Services Division acknowledges with a verification card reports on the reception of shortwave transmissions. New listeners are sent some general information about the United Nations upon request. – Correspondence and request for particulars of the United Nations broadcasts from Headquarters should be adressed to: Radio and Visual Services Division, United Nations, New York.

CENTRAL AMERICA

★ BAHAMAS (British) ★

L.T.: GMT÷5 h. – Pr.L.: English. – Po.: 100.000. – Rcvrs.: 16.000. – E.C.: 120 V., A.C., 60 c/s.

BAHAMAS BROADCASTING AND TELEVISION COMMISSION (Go.)
ADDR.: P.O. Box 1347, Nassau. – L.P.: Mgr.: H. R. Bethel. Dir. Tec.: R. E. Knowles.
HOME SERVICE: ZNS 1540 kc/s 195 m 5 kW: 11.00–05.00. N.: 13.15, 18.15, 00.15. – ANN.: "This is St. ZNS, Nassau". – V. by letter.

★ BERMUDA (British) ★

L.T.: GMT+4 h. – Pr.L.: English. – Po.: 42.000. – Rcvrs.: 17.000. – E.C.: 110/120 V., A.C., 60 c/s.

BERMUDA BROADCASTING CO. LTD. (Comm.)
ADDR.: Box 314, Hamilton. – Cable: ZBM Bermuda. – L.P.: Man. Dir.: W. Staskow. Mgr.: G. Robinson. Dir. Tec.: J. H. Spershott.
HOME SERVICE: ZBM-1, ZBM-2: 0.25 kW:
1235 kc/s 242.9 m: W.: 24 h.
1340 – 223.3 – : W.: 11.30–23.30. – Sun.: 13.00–03.00.
N.: English: D.: 10.55, 11.45, 13.00, 16.45, 18.00, 19.00, 20.00, 21.00, 22.00, 23.00, 01.00, 02.05, 03.30, 04.00, 04.30, 05.00. – Portuguese: D.: 10.15–10.30, 00.30–01.00 (Sat. only) on 1235 kc/s. – French: Wed. 14.30–15.00 on 1340 kc/s. – German: Wed. 14.00–14.30 on 1340 kc/s.
ANN.: "This is R. Bermuda". – V. by QSL-card. R.p. appreciated.

★ COSTA RICA ★

L.T.: GMT÷6 h. – Pr.Lr: Spanish. – Po.: 1.000.000. – Rcvrs.: 75.000. E.C.: 110 V., A.C., 60 c/s.

DEPARTEMENTO CONTROL NACIONAL DE RADIO, Apartado 3483, San Jose. – L.P.: Dir.: L. H. Andrés. – All st. comm. exc. 3), 22) (Cultural).

STATIONS: Short Waves: Call: TI—.

	Call	kc/s	m	kW	m.w.	Name	H. of tr.
1)	Q	5954	50.39	1.0	1175	R. Casino	11.55–06.00
2)	HBG	6006	49.95	0.7	690	R. Reloj	24 h.
3)	FC	6037	49.69	0.3d[1])	995	Faro del Caribe	12.00–05.00
4)	GG	6075	49.38	0.5	1060	R. Excelsior	12.00–05.00
5)	GPH	6150	48.78	1.0	650	R. Monumental	
6)	DCR	9615	31.20	3.0	625	La V. de la Victor	10.00–07.00
3)	FC	9645	31.10	1.0d[2])	995	Faro del Caribe	12.00–05.00

[1]) East & West. [2]) North & South.

Medium Waves: Call: TI—. °=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
7)	JJH	550	1.5	18)	LS	880	2.0	28)	RE	1235	3.0
8)	JC	590	1.0	19)	LC	900	1.0	29)	SBJ	1275	2.0
9)	AV	605	1.0	20)	RS	920	4.0	30)	CYM	1300	1.0
6)	DCR	°625	10	21)	CEC	940	1.0	31)	WW	1325	1.0
5)	BAS	°650	3.5	22)	AC	955	2.0	32)	MAR	1350	1.0
10)	U	670	1.0	23)	RH	970	1.0	33)	LG	1375	1.0
2)	HB	°690	2.0	3)	FC	°995	1.0	34)	CJ	1400	1.0
11)	LX	710	1.0	24)	EM	1040	1.0	35)	MMC	1425	1.0
12)	RA	735	1.0	4)	GG	°1060	1.0	36)	HGJ	1450	1.0
13)	W	750	4.5	25)	SM	1125	1.0	37)	ZZ	1490	1.0
14)	CS	775	1.5	11)	CA	1150	2.0	38)	EEAW	1500	1.0
5)	GPH-2	800	3.5	1)	C	°1175	1.0	39)	MET	1550	2.0
15)	UCR	815	1.0	26)	BSD	1195	1.0	40)	JJG	1575	1.0
16)	SS	830	1.3	27)	ALC	1210	1.0	41)	EMH	1600	1.0
17)	CS	855	6.0						FM: 5)	88 mc/s	

Short Waves:
1) Apt. 287, Puerto Lemon. – L.P.: Dir.: L. Villalobos. – V. by letter
2) Apt. 341, San José. – L.P.: Dir.: R. Barahona G. – V. by letter.
3) Apt. 2710, San José. – L.P.: Mgr.: F. Cabezas B. Dir. Prgr.: G. Herzog. Dir. Tec.: F. Smith. – D. Prgr.: On all fq's: Spanish: W. 12.00–04.00. Sun.: 12.30–20.00, 21.00–04.00. – "Caravana Musical" (request prgr.): W.: 19.00–20.00, 22.00–23.00. – English: D. 04.00–05.00. Sun. 20.00–21.00. – German: Sun. 19.30–19.45. – ANN.: E.: "You are tuned to TIFC, The Lighthouse of the Caribbean, transmitting from San José, Costa Rica, Central America". – V. by QSL-card. – PUB.: Prgr.sched. free on request.
4) Apt. 1774, San José. – L.P.: Dir.: G. Grillo O. – V. by QSL-card or letter.
5) Apt. 800, San José. – L.P.: Dir.: L. Pinto S. – V. by letter.
6) Apt. 3611, San José. – Cable: "La Victor". – L.P.: Dir. Gen.: M. Acosta. Dir. Prgr.: J. Sanchez. Dir. Adm.: C. Acosta. Dir. Tec.: A. Alfaro. Dir. For. Rel.: H. Arias. – D. Prgr.: N., Comm.: 11.45, 12.30, 17.00, 21.00, 03.30, 04.50. – Nat. Music: 11.30, 20.30, 06.00. – Wrp.: 12.30. – ANN.: "Radio Internacional de Costa Rica" or "La Voz de la Victor". – V. by letter.

Medium Waves:
7) R. Progreso, Apt. 122, Alajuela. – L.P.: Dir.: E. Martinez.
8) Radiopolis, Apt. 854, San José. – L.P.: Dir.: J. Castro C.
9) R. Selecta, Apt. 4666, San José. – L.P.: A. Vargas V.
10) R. Musical, Apt. 854, San José. – L.P.: as 8).
11) R. Columbia, Apt. 708, San José. – L.P.: Dir.: C. A. McAdam.
12) R. America Latina, Apt. 2525, San José. – L.P.: Dir.: R. Aguilar V.
13) R. City, Apt. 835, San José. – L.P.: Dir.: A. Múrolo C. – V. by letter. Reports can be written in English.
14) R. Titania, Apt. 512, San José. – L.P.: Dir.: M. Sotela.
15) R. Universitaria, San Pedro. – L.P.: Dir.: C. Salazar H.
16) La Voz del Tropico, Apt. 914, San José. – L.P.: Dir.: G. Saénz O.
17) La Voz de America, Apt. 517, San José.
18) Radion, Guadalupe. – L.P.: Dir.: R. Castro.
19) R. Hispana, Cartago. – L.P.: Dir.: J. F. Lafuente C.
20) R. Athena, Apt. 208, San José. – L.P.: Dir.: O. Sotela M.
21) R. Cima, San Ramón. – L.P.: Dir.: C. E. Córdoba.
22) R. Fides (Emisora Catolica), Apt. 1933, San José.
23) R. El Mundo, Apt. 1339, San José. – L.P.: Dir.: R. Hine Ch.
24) R. Pampa, Apt. 3419, Nicoya. – L.P.: Dir.: P. Arguello C.
25) R. Sport, Apt. 4140, San José. – L.P.: Dir.: O. Torres R.
26) R. Victoria, Cartago. – L.P.: Dir.: E. Carvajal A.
27) R. Universal, Apt. 3202, San José. – L.P.: R. Sobrado.
28) R. Emaus, Coronado. – L.P.: Dir. Gen.: C. H. Rodriquez Q. Prgr.: V. Cot Rigola. Dir. Tec.: A. D. Romero, A. Mora. – D. Prgr.: 11.50–03.15. – F.PL.: Increase of power and s.w.
29) R. Libertad, Apt. 4075, San José. – L.P.: Dir.: S. Bermudez J.
30) R. Femenina, Apt. 923, San José. – L.P.: Dir.: J. Ma Cañas A.
31) R. Centro, Puntarenas. – L.P.: Dir.: A. Múrelo C.
32) R. Tropical, Heredia. – L.P.: Dir.: V. M. Víquez.
33) R. Cariari, Limón. – L.P.: as 1).
34) R. Sinai, San Isidro del General. – L.P.: Dir.: G. Jiménez.

35) **R. Golfito**, Puerto Golfito. – V. by letter.
36) **R. Reginal**, San Carlos. – **L.P.:** Dir.: H. R. Carazo.
37) **La Voz del General**, San Isidro del General.
38) **R. Turrialba**, Turrialba. – **L.P.:** Dir.: D. Castro C.
39) **Servicio Metereo Logico**, Minist. Agricultura, San José.
40) **La Voz de Guanacaste**, Liberia. – **L.P.:** Dir.: A. Céspedes.
41) **R. Cadena Azul**, S. Cruz. – **L.P.:** Dir.: E. Muñoz H.

★ CUBA ★

L.T.: GMT÷5 h. – **Pr.L.:** Spanish. – **Po.:** 6.410.000. – **Rcvrs.:** 900.000. – **E.C.:** 110/220/440 V., A.C., 60 c/s.
MINISTERIO DE COMMUNICACIONES, Direccion de Radio, Plaza de la Republica, Habana.

STATIONS: Short Waves: Co...

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	CA	2440	122.9	1.0		R.dif. COCA
2)	CW	5045	59.46	1.0	590	R. Rebelde
3)	CO	6010	49.92	5.0	980	El Periodico del Aire
4)	CD	6130	48.94	1.0	760	La Voz del Aire
5)	CY	6175	48.58	1.0	550	R. Siboney
6)		6317	47.50		850	R. Oriente: 11.00–04.00
7)		6330	47.39		910	Union Radio: 11.00–05.00
8)	BZ	9030	33.20	1.0	830	R. Salas: 12.00–06.00
9)	BQ	9235	32.45	1.0	890	R. Onda Musical Cubana
10)	BC	9362	32.05	1.0	690	R. Progreso: 10.20–06.00
3)	CO	9535	31.46	0.25	980	El Periodico del Aire: 11.58–04.58
9)	BQ	9540	31.45	1.0	890	R. Onda Musical Cubana
11)	JK	9620	31.19	1.0	1160	La V. del Camagüeyano: 12.00–05.00
12)	X4	9640	31.12	5.0	1560	Ministerio de Educacion
13)	CQ	9670d	31.02	1.0	630	Circuito CMQ: 10.27–05.00
14)	RG	9740	30.80	1.0	1000	R. Reloj del Aire: 11.55–06.00
15)	BL	9833	30.51	1.0	860	R. Aeropuerto Intern.: 12.00–06.00
2)	CY	11740	25.55	1.0	590	R. Rebelde: 23.00–05.00
16)	BH	11800	25.42	1.0	790	R. Onda Mus. Espanola: 03.00–07.00
8)	BZ	17820	16.84	1.0	830	R. Salas
10)	BC	17850	16.81	1.0	690	R. Progreso
5)	CY	21620	13.87	1.0	550	R. Siboney
2)	CW	21740	13.80	1.0	590	R. Rebelde

Medium Waves: Call: CM---. °=short waves.

Habana: 15 low power stations (less 1 kW):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
5) CY	°550	15	16) CH	°790	10	3) CK	°980	5
2) W	°590	25/15	8) BZ	°830	5/1	20) BQ	1010	5/1
13) Q	°630	50d	15) BL	°860	15	21) CX	1060	10/0.25
17) CU	660	5	9) CA	°890	0.25	22) CI	1260	5
10) BC	°690	50	7) CF	°910	10	23) CB	1330	1
18) CA	730	10	19) BF	950	10	12) Z	°1560	5
4) CD	°760	10						

Pinar del Rio (Prov.): Low power stations (less 1 kW): 9 stations.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
10) AF	680	1/0.5	2) AN	840	1	13) AQ	920	1
24) AB	740	5	7) AG	880	1	24) AB	1070	5

Matanzas (Prov.): 8 low power stations (less 1 kW):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
7) GX	910	1	2) GF	930	0.25	2) GN	960	0.5
Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW

Las Villas (Prov.): 10 low power stations (less 1 kW):

2) HI	570	10	26) HT	990	1/0.25	30) HK	1210	1
13) HQ	640	15d	27) HS	1020	1	31) HA	1280	1
10) HG	670	1/0.5	28) HF	1040	1	32) HO	1310	1
10) HN	680	1/0.5	22) HM	1130	1	33) HC	1410	1
25) HW	810	1/0.5	29) HV	1180	1	34) HY	1590	1
7) HD	890	1						

Camagüey (Prov.): 15 low power stations (less 1 kW):

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
10) JE	680	1	13) JV	900	1	37) FA	1110	1
10) JT	700	1	13) JL	920	10d	11) JK	°1160	1
35) JY	760	1	2) JN	960	1	38) JC	1270	1
22) JS	800	1	22) JG	1000	1	39) JF	1340	1
7) JB	880	1	36) JR	1030	1			

Oriente (Prov.): 30 low power stations (less 1 kW)

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
7) KM	560	5	22) KL	800	2	41) DW	1030	5
2) KV	600	2.5	40) DQ	840	1	42) KR	1090	1
13) KU	630	2	6) KC	°850	2	43) DL	1150	1
10) KP	670	1	2) KN	930	1	7) KB	1170	1
10) DB	680	1	6) DJ	950	0.25	6) DD	1200	1
13) KJ	740	10d	22) KD	970	1	44) DA	1320	1
6) DC	770	1	14) KW	°1000	0.25	45) KT	1520	1

FM: 20 stations.
Short Waves:
1) Calle 25 No. 162, Habana.
2) Calle O 216, Apt. de Correos 3540, Habana. – **L.P.:** Dir. Gen.: J. Villanueva. Dir. Tec.: A. Gil. – **D. Prgr.:** M.w.: 10.00–05.00. – **N.:** W.: 10.00, 17.00, 22.50, 03.00. – **ANN.:** "Radio Rebelde trasmitiendo desde su planta matriz CMW 590 kc/s en la Habana, Cuba". – **INT.-SIG.:** 2 bellstrokes. – V. by QSL-card.
3) Av. de la Independencia y Mordazo, Habana. – **L.P.:** Mgr.: J. Gonzales. Dir. Tec.: L. Casas. **N.:** W.: 12.00 (exc. Mo.), 12.30 (exc. Mo.). Sun.: 16.30, 17.00, 23.00. – V. by letter.
4) Calle 25 No. 1111, Habana. – **Cable:** "Vozaire". – **D. Prgr.:** 760 kc/s 24 h. – V. by QSL-card.
5) Escobar 452, Habana. – **N.:** 17.00, 22.00, 03.05. – **ANN.:** "La Voz del Indio, La Primera en su Radio". – **INT.-SIG.:** s/on with Nat. Anthem and the Song "Queremo mucho".
6) **R. Oriente**, Aguilera 511, Stgo. de Cuba. – **L.P.:** Dir. Gen.: Dr. J. M. Berenguer. – **D. Prgr.:** 10.30–05.00.
7) **Union Radio**, Apt. 3237, Habana. – **L.P.:** Dir. Gen.: F. C. Hermida. Dir. Tec.: L. V. Perez. – **D. Prgr.:** W. 10.56–05.57. Sun. 10.56–05.00. – **N.:** 11.00, 17.00(W), 23.00(W). – **ANN.:** "Union Radio y su cadena de Emisoras IS Bella Cubana".
8) San Rafael 108 2° piso, Habana. – **L.P.:** Dir. Gen.: M. A. Salas. Dir. Tec.: F. Tejero. – **N.:** W.: 17.35, 20.00, 24.00. **N. in Chinese:** 18.30 (exc. Sun.). – V. by QSL-card.
9) Av. Menocal 801, Habana.
10) Av. Menocal 105, Habana. – **L.P.:** Dir. Gen.: M. Fernandez. Dir. Tec.: C. Estrada. – **D. Prgr.:** W. 10.27(Tues. 10.15)–06.00. Sun. 10.15–05.00. – **N.:** 10.30, 13.00(W), 17.00(W), 23.00(W), 05.45(W). – **ANN.:** "R. Progreso, La Onda de la Alegria".
11) Finley No. 4, Camagüey. – V. by QSL-card.
12) Consejo Corp. Columbia, Habana. – **D. Prgr.:** 14.00–04.00.
Circuito CMQ:
13) Edif. Radiocentro, Habana. – **L.P.:** Pres. Goar Mestre. Ad. Pres.: Abel Mestre. Vice-Pres.: Manuel Cores (Prgr.), Arturo Chabau (Sale), René Puig (Personal), R. L. Guiral (Tec.). International Sce.: Rigoberto M. Rodriguez, Ass. Director. – **N.:** 10.30, 15.53(Sun.), 16.54(W), 17.25, 22.55(W), 23.23(W), 01.35(W), 03.30. – **Relay st.:** CMAQ: Pinar del Rio, CMHQ: Sta. Clara las Villas, CMJV: C. de Avila Camagüey, CMJL: Camagüey, CMKU: Stgo. de Cuba, CMKJ: Holguin. – **ANN.:** "CMQ desde Radiocentro Habana". – **INT.-SIG.:** "Canto Siboney" played on organ. – V. by QSL-card. – **PUB.:** Monthly. By request.
14) Estrada Palma 658, Stgo. de Cuba.
15) Apt. 541, Habana. – **L.P.:** Dir. Gen.: S. V. Cayro. Dir. Tec.: J. Inclan. – **D. Prgr.:** **N.:** 12.30, 15.00, 17.30, 18.21, 00.00, 00.30, 02.50, 04.45. – **ANN.:** "R. Aeropuerto – Frequencia de Oro – Emisora Internacional". – V. by QSL-card or letter.
16) San José 104, Habana. – **L.P.:** Mgr.: H. R. Ranere. – On 790 kc/s: 11.15–07.00. – **N.:** 12.45.
Medium Waves: D. PRGR.: Approx. 10.00–05.00 (or. 06.00).
17) **R. Garcia Cerra**, Apt. 232, Habana. – **L.P.:** Dir. Gen.: R. Garcia Serra. Dir. Tec.: E. Jimenez. – **D. Prgr.:** 12.00–05.00 in **Spanish, English: N.:** 23.50. FM: 101.1 mc/s 0.25 kW. – V. by letter.
18) **R. Mambi**, Prado 107, Habana. – **L.P.:** Dir. Gen.: A. F. Cuzan. Dir. Tec.: C. E. Castro. – **D. Prgr.:** 12.00–05.00. – **INT.-SIG.:** Canto el Mambi. – **ANN.:** "Aqui R. Mambi".
19) **Cadena Nacional**, Radiocentro, Calle 312, Vedado, Habana. –
20) **R. Continental**, Prado 206, Habana. – **L.P.:** Dir.: Dr. F. Hernandez. – **D. Prgr.:** 24 h. – **INT.-SIG.:** "Maria La O". – **ANN.:** "1010 R. Continental La Onda que no descansa".
21) **Espacio Aéro**, Calle L. No. 353, Habana. – **L.P.:** Mgr.: M. del Carmen Nuñoz. – **D. Prgr.:** 12.00–06.00. – **ANN.:** "1060 La Emisora Amiga".
22) **Cadena Oriental de Radio**, R. Minuto Nacional, L. No. 353, Edif. Odontologico, Habana. – **L.P.:** Dir. Gen.: L. C. Lavar. – **D. Prgr.:** 10.00–05.00. – V. by QSL-card or letter.
23) **R. Reloj**, Radiocentro, Habana. (Belongs to CMQ). – **D.** 24 h.
24) **Rdif. CMAB**, Maceo esq. a Rosario, Pinar del Rio.
25) **La Voz de las Villas**, Apt. 376, Sta. Clara.
26) **Rdif. CMHT**, Camara de Comercio, S. Spiritus.
27) **Rdif. CMHS**, Agramente y Calle Jimenez, Caibarien.
28) **Rdif. CMHF**, Prado esq. a Argüelles, Cienfuegos.
29) **Cia. Insular de Radiodifusion**, Sta. Clara.
30) **Rdif. CMHK**, Heredia No. 61, Cruces.
31) **Rdif. CMHA**, M. Nicolasa Candelaria 19, Sta. Clara.
32) **Organizacion Insular de Radio**, Ave Raucho Boyeros y Mordazo, Habana. (CHMO tr. from Sta. Clara).
33) **Rdif. CMHC**, Parque Vidal No. 1, Sta. Clara.
34) **Rdif. CMHY**, B y C, Cabaiguan.
35) **Rdif. CMJY**, Avellaneda 215, Camagüey.
36) **Noticero R. Legendario**, Republica 286, Camagüey.
37) **Rdif. CMFA**, Camagüey.
38) **Cadena Camagüeyana de Radio**, Independencia 308, Camagüey.
39) **R. Camagüey**, Ave del Aeropuerto D., Camagüey.
40) **Rdif. CMDQ**, Hotel Gran Casino, Victoria de las Tunas.
41) **Rdif. CMDW**, Aguilera 559, Stgo. de Cuba.
42) **Rdif. CMKR**, B. Maso 515, Stgo. de Cuba.
43) **Rdif. CMDL**, M. Gomez e Frexes y Aguilera, Holguin.
44) **Red Provincial de Radio**, Villa Maria, Stgo. de Cuba.
45) **Rdif. CMKT**, Victoria de las Tunas.

★ DOMINICAN REPUBLIC ★

L.T.: GMT÷5 h. – **Pr. L.:** Spanish. – **Po.:** 2.6C8.CC0. – **Rcvrs.:** 100.000. – **E.C.:** 110/220/440 V, A.C., 60 c/s.

DIRECCION GENERAL DE TELECOMUNICACIONES

Ci. Trujillo.

STATIONS: approx. 11.00–05.00 (exc. where indicated).

Short Waves Call: HI–––.

	Call	kc/s	m	kW	m.w.	Name and hour of transmissions
1)	3C	2440	122.8	1.0		Casa Puerto Rico Inc.
2)	1Z	3245	92.44	0.5	1350	Broadc. Nacional: 12.00–06.00
3)	7T	3285	91.32	1.0	*	La Voz Dominicana: 11.00–04.00
4)	N	3310	90.63	1.0	1220	Emisora HIN: 11.00–04.05
5)	2S	3345	89.68	0.2	1400	Onda Musical
6)	1N	3350	89.55		1220	La Voz de la Reeleccion
7)	3H	3355	89.42	0.5	1490	La Voz de la Alegria
8)	8V	3375	88.89	0.5		Diocesis de la Vega
9)	2D	3385	88.63	0.75	1600	R. Hit Musical: 10.40–04.00. Sun. 14.00–24.00.
10)	5C	4860	61.73	0.25	1250	La Voz del Progreso:11.00–03.00
11)	5B	4905	61.16	0.5	1330	Emisora HI5B/4B: 11.00–03.00
12)	9B	4910	61.10	0.5	1050	Emisora HI9B/H18B
13)	3K	4980	60.25	1.0	1450	Ondas del Yaque: 11.00–04.00
14)	8Z	5030	59.64	0.2	820	R. Santiago
15)	2L	5055	59.36	0.5	790	La Voz del Tropico
3)	4T	5970	50.25	7.5	*	La Voz Dominicana: as 3285
16)	9U	6020	49.83	1.0	1240	Broadc. Tropical: 11.00–03.00
17)	1J	6025	49.79	0.1	610	La Voz de Oriente: 16.45–02.00
14)	8Z	6035	49.30	0.5	820	R. Santiago
2)	1Z	6113	49.07	1.0	1350	Broadc. Nacional: 11.45–04.30
18)	IG	6130	48.94	0.25	950	R. difusora HIG
19)	1R	6175	48.58	0.2	1450	La Voz de Fundacion: 16.00–24.00
18)	2G	9590	31.28	0.25	950	R. difusora HIG
3)	2T	9735	30.82	7.5	*	La Voz Dominicana: as 3285

* 620/1360/1380 kc/s.

Medium Waves: Call: HI–––. °=Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
17) 1J	°610	0.5	16) 8V	°1240	0.25	5) T	°1400	0.25
3) 3T	°620	10.0	10) 4C	°1250	1/0.1	23) 2A	1440	0.04
15) 1L	°790	0.5	20) 3V	1310	0.5	24) 5K	1440	0.25
14) 9Z	°820	1	21) F	1310	0.5	3) 9T	1440	0.50
18) G	°950	0.25	11) 4B	°1330	0.5	19) 2R	°1450	0.25
12) 8B	°1050	1	2) Z	°1350	1.0	13) 2K	°1450	1.0
24) 5K	1050	0.25	3) 8T	1360	0.25	7) 2H	°1490	0.25
6) 1N	1220	0.75	3) 6T	1380	1	25) 1A	1490	0.25
4) N	°1220	0.5	22) 1L	1400	0.25	9) D	1600	0.5

Short Waves:

1) La Romano.

2) Edificio Copello, Calle el Conde, Ci. Trujillo. – **ANN.:** "Transmiten Emisora HIZ y HI1Z, C. Trujillo, La Republica Dominicana".

3) Av. Ci. de Miami No. 8, Ci. Trujillo. – **Cable:** "Dominicana". – **L.P.:** Pres.: J. A. Trujillo M. Dir. Gen.: A. E. Santamaria D. – **D. Prgr.:** N.: 11.00, 15.00, 19.00, 21.00, 03.30. – **English:** 02.00–02.15. – **ANN.:** "Al Servicio del progreso y la cultura en general, transmite La Voz Dominicana, desde Ciudad Trujillo, Distrito Nacional Capital de la Repúblicana Dominicana". – **V.** by QSL-card.

4) Apt. 287, Ci. Trujillo. – **Cable:** "Rahin". – **L.P.:** Dir. Gen.: H. L. Diaz Mgr.: P. P. Bonilla P. Dir. Prgr.: M. Reynoso. Dir. Tec.: J. Salazar. – **D. Prgr.:** N.: 12.05, 22.50, 04.00. **Nat. Music:** 14.50.

5) Calle Dr. Faura No. 4, Ci. Trujillo.

6) Calle Presidente Trujillo, Santiago de los Caballeros.

7) Calle Real No. 119 (Villa Duarte), Ci. Trujillo.

8) Cultural Religioso, Santo Cerro, La Vega.

9) 30 de Marzo esq. J. Trujillo V. – **L.P.:** Dir. Gen.: M. A. Jorge A. Dir. Tec.: M. Rafael P. – **D. Prgr.:** **Nat. Music:** 13.30, 19.00. – **N.:** 23.15. – **ANN.:** "Radio Hit Musical, HID–HI2D, 1600 y 3385 kc/s, Santiago de los Caballeros, Pepública Dominicana". – **V.** by QSL-card.

10) Calle Presidente Trujillo No. 41, San Francisco de Macoris.

11) Calle Maximo Gomez No. 14, Santiago, de los Caballeros.

12) Calle 30 de Marzo No. 54, Santiago de los Caballeros. **V.** by QSL-card.

13) Edificio Fernandez, Santiago de los Caballeros. – **V.** by QSL-card.

14) Calle 30 de Marzo No. 35, Santiago de los Caballeros.

15) Calle Abreu No. 30, Ci. Trujillo. – **V.** by QSL-card.

16) Apt. 403, Puerto Plata. – **L.P.:** Dir.: L. A. Pelegrin. – **V.** by QSL-card.

17) Calle Sanchez No. 135, San Pedro de Macoris. – **V.** by QSL-card.

18) Av. Mella No. 150, Ci. Trujillo. – **ANN.:** "Radiodifusora Nacional, Emisora HIG, Rep. Dominicana".

19) Hotel S. Cristobal, S. Cristobal. – **ANN.:** "Transmite la Voz de Fundacion desde San Cristobal, Rep. Dominicana". – **V.** by QSL-card.

Medium Waves:

20) **La Voz del Sur-Radio Bani,** Calle U. Guerreo 12, Bani.

21) **Emisora HIF,** Puerto Plata.

22) **La Voz del Camu,** Av. Jose Trujillo Valdez 2, La Vega.

23) **La Voz de Quisqueya,** Salcedo.

24) **Emisoras Unidas,** Calle Arz, Merino, Ci. Trujillo.

25) **La Voz del Cibao,** Calle Cardona 81, Moca.

★ EL SALVADOR ★

L.T.: GMT÷6 h. – **Pr.L.:** Spanish. – **Po.:** 2 400 000. – **Rcvrs.:** 40.000. – **E.C.:** 110/220 V, A.C., 60 c/s.

GOVERNMENT DEPT. FOR BROADCASTING

Ministerio del Interior, Palacio Nacional, San Salvador.

All stations comm. exc. R. Nacional.

STATIONS: Short Waves: Call: YS–.

Call	kc/s	m	kW	m.w.	N. & h. of tr.
1)W	5985	50.13	1.0	930	Radio Santa Ana.
2)S	6010	49.92	5.0	655	R. Nac. de El Salvador: 1800–0400
3)C	6096	49.21	1.0	1015	Ondas Populares y Deportivas: 1100–0600.
4)P	6150	48.78	0.3	780	La Voz de Cuscatlan: Under const.
5)HQ	6170	48.62	0.25	950	La Voz del Progreso: 1600–2000, 2300–0500
6)UA	6190	48.47	1.0	1050	R. Mil Cincuenta: 1200–0600
7)V	9545	31.43	1.0	1280	La Voz del Comercio: Under const.
2)S	9555	31.40	5.0	655	R. Nac. de El Salvador: 1800–0400
8)Y	11725	25.58	1.0	970	R. Victoria
9)AX	11950	25.10	1.0	800	La Voz Panamericana

Medium Waves: Call: YS–––. °) short waves. * under constr.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
10) abc	560	5.0	5) HQ	°950	1.0	22) CB	1175	1.0
2) S	°655	10.0	8) Y	°970	1.0	23) HP	1200	0.25
11) QR	700	5.0	16) DF	990	10.0	24) MA	1230	0.5
12) KL	760	0.5	3) C	°1015	10.0	25) I	1250	3.0
4) P	°780	5.0*	6) U	°1050	10.0	7) V	°1280	1.0*
9) AX	°800	5.0	17) EB	1075	10.0	26) HX	1300	0.5*
13) DR	820	1.0	18) QJ	1100	10.0*	27) LA	1330	1.0*
14) F	840	0.5	19) G	1130	2.0*	28) JA	1400	1.0
15) O	870	1.0*	20) CF	1150	1.0	29) HF	1430	0.5*
1) W	°930	1.0	21) AR	1160	1.0*	30) JL	1450	10.0*

St. 1) 6) 10) & 11) owned by R. Television YSU, S.A., San Salvador.

Short Waves:

1) Santa Ana. – **D. Prgr.:** 1200–0500. – **V.** by QSL-card. 2

2) Alma Cuscatleca Altos del Edificio del Teatro Nacional, San Salvador. – **L.P.:** Mrg.: D.M. de J. Salazar. Dir. Prgr.: R. S. Mendoza. Dir. Adm.: A. A. Mixco. Dir. Tec.: G. C. Vides. – **D. Prgr.:** N.: 18.00, 21.00, 22.00, 0015, 0200, 03.00. – **Nat. Music:** 19.00–19.30 (exc. Sun.). – **Wrp.:** 18.00. 03.00 (exc. Sun.). – **ANN.:** " Transmite Radio Nacional de El Salvador, en la América Central". – **INF.-SIG.:** Four notes Xylophone. – **V.** by QSL-card and prgr.sched.

3) 29 Calle Oriente 218, San Salvador. – **ANN.:** "Esta es YSC, R. 1015 Ondas Populares y Deportivas en S. Salvasor, Centro America, Laboremos por la Paz, la Cultura y el Deporte".

4) Cojutepeque, Dept. de Cuscatlan.

5) Costado Poinente Estadio Oriental, San Miguel.

6) Av. Cuscatlan y 12a Calle Poniente 2, Apt. Postal 1050, San Salvador. – **L.P.:** Dir. Gen.: Dr. H. Escapini. Mgr.: R. Trabanino. Dir. Prgr.: J. D. Calderon. Dir. Adm.: G. L. Tomasino. Dir. Tec.: E. Gamero M. D. Prgr.: N.: W. 12.15, 16.00, 19.30, 23.00, 03.45. – **V.** by letter.

7) Santa Ana, Dept. de Santa Ana.

8) Calle Gerardo Barrios 627, San Salvador.

9) 2a Av. Norte 319, S. Salvador. – **Cable:** YSAX. – **L.P.:** Dir. Gen.: O. A. Bolanos. Dir. Tec.: J. V. Moran. – **D. Prgr.:** 12.00–05.00. N.: 12.30–19.30. **Nat. Music:** W. 12.00.

Medium Waves: D. PRGR.: Approx. 12.00–05.00

10) **Radioemisora Salvadorena,** San Miguel. – **D. Prgr.:** 12.00–05.00.

11) **R. Morazan,** Colonia Alfaro, Ci. de Mejicanos.

12) **R. Universal,** 4a, Calle Oriente 228, San Salvador.

13) **Ondas Tropicales,** Av. Independencia Sur 6, Santa Ana.

14) **R. Vanguardia,** 7a, Calle Oriente 508, San Salvador. – **D. Prgr.:** 18.00–20.00, 00.00–04.00.

15) **La Voz de la Democracia,** 6a, Calle Oriente 28, S. Salvador.

16) **La Voz del Tropico,** 4a, Av. Norte 230, S. Salvador.

17) **La Voz de Latinoamérica,** 2a, Av. Norte 230, S. Salvador.

19) **R. Chaparrastique,** San Miguel.

20) **Ondas Orientales,** loa, Calle Poniente 17, San Miguel.

22) **La Voz del Pacifico,** 6a, Av. Norte 15, Sonsonate.

23) **R. Ciros,** 10 a, Calle Poniente 314, S. Salvador.

24) **La Voz Suprema de Occidente,** 25, Calle Orienta 10, Santa Ana. – **ANN.:** "Transmite YSMA La Voz Suprema de Occidente desde Santa Ana, Republica de El Salvador en la America Central". – **V.** by letter.

25) **R. Emperador,** 3a, Calle Poniente 419, S. Salvador.

26) **R. Cristal,** Sonsonate. 27) **R. Musical,** Santa Ana.

28) **R. Difusora YSJ,** Usulutan.

29) **R. Caribe,** Cojutepeque, Dept. de Cuscatlan.

30) **R. Presencia,** S. Salvador.

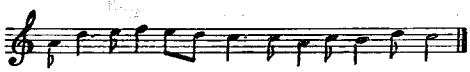
★ GUADELOUPE (French West Indies) ★

L.T.: GMT ÷ 4 h. – **Pr.L.:** French. – **Po.:** 245.000. – **Rcvrs.:** 2.800.

RADIO GUADELOUPE (Go.) – **ADDR.:** Basse-Terre.

HOME SERVICE: 650 kc/s 452 m 1 kW – 1420 kc/s 211 m 0.05 kW 10.20–11.30, 16.15–17.50, 22.45–01.00.

ANN.: "Ici R. Guadeloupe, Poste National Français". – **INT.-SIG.:** Guitar. – **V.** by QSL-card or letter. R.p.



★ GUATEMALA ★

L.T.: GMT ÷ 6 h. – **Pr.L.:** Spanish. – **Po.:** 3.800.000. – **Rcvrs.:** 36.000. – **E.C.:** 110/220 V., A.C., 60 c/s.

DIRECCION GENERAL DE RADIODIFUSION

ADDR.: Edificio a Tipografia Nacional, Calle "18 de Septiembre" y 7a. Av Sur., Guatemala.

All stations comm. exc. R. Nacional (Go.) & R. Cultural (Rel.).

STATIONS: Short Waves: Call: TG---.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	ZB	3355	89.42	0.09	1170	R. Club
2)	LAB	4900	61.22	0.02	1245	R. Victoria
3)	NA	5952	50.40	5.0	720	R. Cultural: see below
2)	LA	5970	50.25	0.5	1245	R. Victoria
4)	AR	5980	50.17	1.0	1270	R. Quetzal: W. 11.15–06.00. Sun. 13.00–02.00.
5)	JA	5990	50.08	3.0	880	R. Nuevo Mundo: 12.00–05.00
6)	TA	6000	50.00	0.25	1390	R. Sonora: 11.55–06.00
7)	DA	6020	49.83	1.0	1070	La Voz de Occidente: 11.00–05.00
8)	TQ	6030	49.75	5	810	R. Internacional: 14.00–02.00
9)	CO	6040	49.67	0.5		La Voz del Tropico
10)	XB	6050	49.59	0.8	1050	R. Centro Musical: 12.00–04.00
11)	XX	6060	49.50	1.5	850	R. Ciro's: 12.30–06.00
12)	PA	6070	49.42	0.25	575	R. Palmeras: see below
13)	CB	6080	49.34	0.25	1190	R. Colonial
14)	OA	6100	49.18	1	1140	La Voz de las Americas: 11.00–06.00
15)	QA	6110	49.10	1.0	***	R. Nacional: W. 11.00–04.00 Sun. 15.55–03.00
16)	HC	6140	48.86	0.5	780	R. Universal: W. 12.00–06.00, Sun. 14.30–04.30
17)	AZ	6150	48.78	0.5	950	R. Continental: 12.00–06.00
1)	ZA	6160	48.70	0.25	1170	R. Club
18)	WB	6180	48.54	1.0	**	R. Nacional: 11.55–06.00
19)	KN	6200	48.39	0.1	1100	R. Novedades: W. 13.00–06.00, Sun. 20.00–02.00
3)	NB	9668	31.03	5.0	720	R. Cultural
18)	WA	9685	30.98	10.0	**	R. Nacional: 11.55–06.00
15)	QB	11700	25.64	0.5	***	R. Nacional
20)	CX	11750	25.53	0.5	1080	R. Cristal: 14.00–16.00, 17.30–21.00, 00.00–04.00
3)	NC	11850	25.32	5.0	720	R. Cultural

** 640/1520 kc/s. *** 860/1310 kc/s.

Medium Waves: °) = Short Waves.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
12)	PR	°575	0.25	25)	TL	920	5	29)	RL	1180	1
21)	Y	590	1	17)	AX	°950	1	13)	CA	°1190	0.25
18)	W	°640	10	26)	CQ	980	1	22)	ED	1210	5
22)	SU	680	1.5	27)	UX	1020	1.5	22)	EDA	1210	1
23)	HR	700	0.3	10)	XA	°1050	0.6	2)	L	°1245	0.45
3)	N	°720	5	28)	AF	1060	2	4)	AQ	°1270	1
24)	RF	750	0.5	7)	D	°1070	2	30)	MU	1300	0.25
16)	HB	°780	1	22)	RA	1070	1.5	15)	Q	°1310	1
8)	TO	°810	5	20)	C	°1080	0.35	6)	T	°1390	0.25
11)	X	°850	1.5	19)	K	°1100	0.8	31)	MS	1450	0.5
15)	SM	°860	0.25	14)	O	°1140	0.8	32)	AG	1460	0.5
5)	J	°880	5	1)	Z	°1170	0.5	18)	WC	°1520	1

Short Waves:

1) Zacapa.

2) 8a Calle Poniente 18, Mazatenango.

3) Apt. 601, Guatemala (Owned by Central American Mission, 3611 Congress Ave., Dallas 19, Texas, U.S.A.). – **L.P.:** St. Dir. & Dir. Prgr.: A. Platt. Dir. Tec.: G. Liebig. – **D. Prgr.: Spanish:** On 720/5952 kc/s: 12.15–14.00, 18.00–20.30, 22.30–03.00. **English:** On 5952/9668 kc/s: 03.00–04.00. – **V.** by QSL-card or letter. R.p.

4) 12. Av. 26–27, Z-5, Guatemala. – **ANN.:** "Guatemala, Aqui es Radio Quetzal 1270 /cks onda larga, 5975 kc/s onda corta en banda de 49 metros".

5) 6a Av. 10–45, Z-1, Guatemala. – **ANN.:** "Radio Nuevo Mundo, Ciudad de Guatemala". – **V.** by QSL-card.

6) Apt. 401, Guatemala. – **ANN.:** "Radio Sonora la emisora que da la hora 1390 kc/s onda larga, 6000 kc/s onda corta en 49 metros".

7) Av. Independencia 8, Quezaltenango.

8) 5a. Av. 10–35, Z-1, Guatemala. – **ANN.:** "La Voz de la Capital desde Guatemala". **INT.-SIG.:** Electrical Xylophone. – **V.** by QSL-card.

9) 7a Av. y 4a Calle, Coatepeque.

10) Pasaje Aycinena 8–27, Z-1, Guatemala. – **ANN.:** "TGXA Radio Centro Musical 1050 kc/s onda larga, 6050 kc/s en banda internacional de 49 metros". – **V.** by QSL-card or letter.

11) 3a Av. 19–45, Z-1, Guatemala. – **ANN.:** "Radio Ciros la emisora musical de Guatemala, onda larga 850 kc/s TGX, onda corta 6060 kc/s TGXX". – **V.** by QSL-card or letter.

12) 6a Calle Oriente, 1-A, Escuintla. – **D. Prgr.:** W. 12.55–19.30, 01.30–03.00. Sun. 13.25–19.30, 00.45–03.00.

13) Calle Portocarrero 6, Antigua.

14) 2a Av. 13–39, Z-1, Guatemala. – **ANN.:** "La Voz de las Americas saludando toda America desde la Ciudad de Guatemala." – **V.** by QSL-card or letter.

15) 5a Av. Norte No. 26, Quezaltenango (TGSM: Palacio Maya, San Marcos). – **ANN.:** "Dios, Patria y Libertad esta es TGQ, TGQA y TGQB, Radio Nacional de Quezaltenango". – **V.** by QSL-card. – **PUB.:** Monthly prgr.sched. free on request.

16) 7a Av., 14–74, Z-1, Guatemala. – **ANN.:** "Radio Universal y Radio Central en cadena". – **V.** by QSL-card or letter.

17) 13 Calle, 12–26, Z-1, Guatemala. – **ANN.:** "Difunde la Emisora mas perfecta y de alta calidad, Radio Continental, una emision para toda la República". – **V.** by QSL-card or letter.

18) Calle 18 Septiembre y 7a Av., Z-1, Guatemala. – **L.P.:** Dir. Gen., Dir. For. Rel.: J. M. Lenhoff. – **ANN.:** "Radio Nacional TGW, TGWA, TGWB, TGWC". – **V.** by QSL-card or letter. – **F.PL.:** Two 50 kW m.w. tr., 20 kW s.w. tr.

19) 9a Calle "A", 4–50, Z-1, Guatemala. – **ANN.:** "TGK en la Ciudad de Guatemala. Radio Novedades 1100 kc/s onda larga, 6200 kc/s onda corta en la banda internacional de 49 m". **V.** by QSL-card.

20) 9a Av., 9–30, Z-1, Guatemala.

Medium Waves: D. PRGR.: Approx. 12.00–05.00

21) **R. Progreso,** Calle "Martii" 10–39, Z-2, Guatemala.

22) **Radio Cadena 1210: ADDR.:** Main St. (TGED): 3A Av. 13–07, Zona 1, Guatemala. **Cable:** "Radsis". **Relay St.** (TGEDA): Edificio Quinto, Ci Puerto Barrios, Izabel. **Affiliated Stations: Radio Sur 680** (TGSU), Edificio Diaz, Ci de Escuintla; **Radio Indiana** (TGRA), Edificio Phillips, Mazatenango Such. **L.P.:** Dir. Gen.: M. Tulio I. Sales Mgr., Production: J. Archila M. Mgr. R. Sur. 680: I. Soto. Mgr. R. Indiana: G. Alcazar. Dir. Tec.: Eng. J. de la Cerda W. – **D.PRGR.:** 12.00–06.00 (all stations simultaneously). – **V.** by QSL-card. R.p. – **F.PL:** Relay st. in Ci. de Quezaltenango 1 kW.

23) **R. A.B.C.,** 8a Av., 3–30, Z-1, Guatemala.

24) **R. Faro Aviateca,** 2a Calle, 6–33, Guatemala.

25) **La Voz de la Telefunken,** 12 Calle 4–16, Z-1, Guatemala. – **Cable:** "Telefunken". – **L.P.:** Dir. Gen.: E. Mayorga L. Mgr.: W. Proesamers. Dir. Tec.: H. Möller A. – **D. Prgr.:** 12.15–06.00. – **N.** 12.30. **Comm.** 14.30, 20.30. **Prgr. in German & Spanish:** Mo. 03.00–04.00. – **Int.-Sig.:** Gong.

26) **R. Central,** 7a Av., 14–74, Z-1, Guatemala.

27) **R. Panamericana,** 13 Av., 12–67, Z-1, Guatemala. – **D. Prgr.:** W. 11.55–06.00. Sun. 11.55–05.00.

28) **R. Indiana,** Mazatenango.

29) **R. Landivar,** Quezaltenango. – **D. Prg.r:** 12.00–04.00. – **V.** by letter.

30) **La Voz de la Buena Musica,** 13 Calle 9–62, Guatemala. **D. Prgr.:** 13.00–05.00. – **F. PL.:** 5 kW.

31) **R. Nacional,** 4 a Av. y 8a Calle, Mazatenango.

32) **La Voz de Huehuetenango,** Huehuetenango.

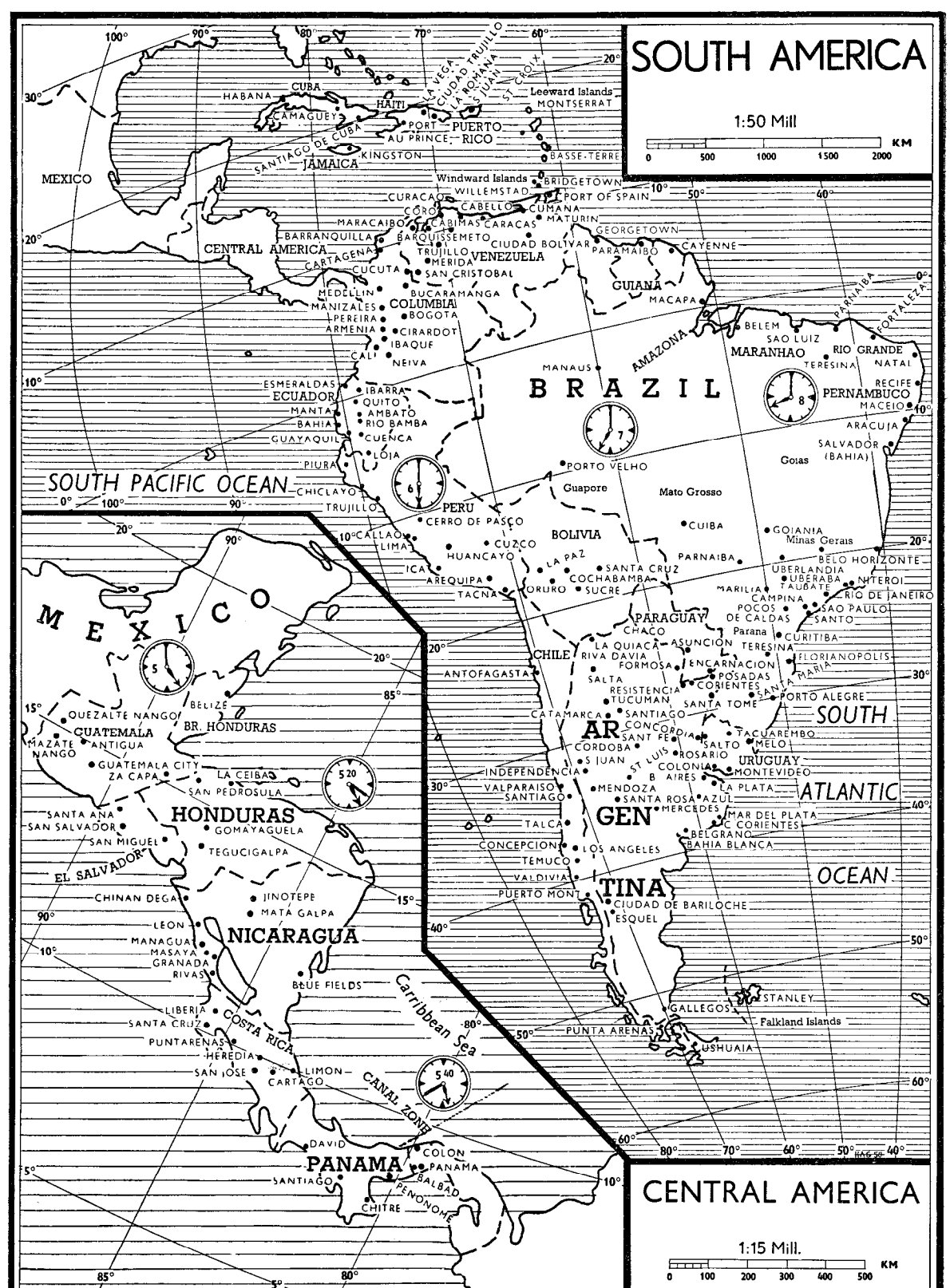
★ HAITI ★

L.T.: GMT ÷ 5 hours. – **Pr. L.:** French, Creole. – **Po.:** 3.344.00. **Rcvrs.:** 20.000. – **E.C.:** 115 V, A.C., 60 c/s.

Special Abbreviations: LV = La Voix. WI = West Indies.

STATIONS: Short Waves: Call: 4V---.

	Call	kc/s	m	kW	m.w.	Name – hours of transmissions
1)	U	3322	90.31	0.25		R. Lumiere: 10.30–12.00, 22.00–02.30. Sun. 12.00–02.30
2)	GS	5020	59.76	0.4	755	R. Indépendance: 11.00–14.00, 17.00–20.00, 23.00–02.30
3)	PM	5040	59.52	0.225		LV du Nord Ouest: 11.00–19.00, 23.00–03.00
4)	RM	5060	59.29	0.4		LV des Gonaives: 11.00–13.00, 17.00–19.00, 22.00–03.00
5)	CB	5740	52.26	0.3		LV du Sud: 19.30–03.00
6)	B	5985	50.13	7.5	1080	R. Commerce: 11.00–14.00, 22.00–03.30. Sun.: 12.00–24.00.
7)	EC	6000	50.00	0.4		LV Evangelique: see below
8)		6100	49.18	0.54		LV de la Vie Marie: 11.30–12.00, 22.30–23.30 (Mo. 00.00–00.30)
9)	WA	6155	48.74	0.15		R. Citadelle: 12.00–15.00, 18.30–03.00


SOUTH AMERICA
1:50 Mill
KM
0 500 1000 1500 2000
CENTRAL AMERICA
1:15 Mill.
KM
0 100 200 300 400 500
MEXICO
CUBA
HABANA
CAMAGUEY
HAITI
PORT AU PRINCE
PUERTO RICO
LA VEGA
CIUDAD TRUJILLO
LA ROMANA
S JUAN
ST CROIX
Leeward Islands
MONTSERRAT
BASSE-TERRE
SANTIAGO DE CUBA
KINGSTON
JAMAICA
Windward Islands
BRIDGETOWN
WILLEMSTAD
PORT OF SPAIN
CURACAO
CORO
CABELLO
CUMANA
MATURIN
MARACAIBO
BARQUISSEMETO
CARACAS
GEORGETOWN
BARRANQUILLA
CIUDAD BOLIVAR
PARAMAIBO
CAYENNE
CENTRAL AMERICA
CARTAGENA
TRUJILLO
MERIDA
VENEZUELA
CUCUTA
SAN CRISTOBAL
GUIANA
MEDELLIN
BUCARAMANGA
MANIZALES
COLUMBIA
MACAPA
PEREIRA
BOGOTA
ARMENIA
CIRARDOT
IBAQUE
CALI
NEIVA
BELEM
SAO LUIZ
PARANIBA
FORTALEZA
AMAZONA
MARANHAO
RIO GRANDE
TERESINA
NATAL
MANAUS
BRAZIL
ESMERALDAS
IBARRA
ECUADOR
QUITO
MANTA
AMBATO
RIO BAMBA
BAHIA
GUAYAQUIL
CUENCA
LOJA
PIURA
PORTO VELHO
Guapore
Mato Grosso
SOUTH PACIFIC OCEAN
CHICLAYO
TRUJILLO
PERU
CERRO DE PASCO
CUIBA
CALLAO
LIMA
CUZCO
BOLIVIA
HUANCAYO
LA PAZ
ICA
AREQUIPA
SANTA CRUZ
COCHABAMBA
TACNA
ORURO
SUCRE
PARNAIBA
GOIANIA
Minas Gerais
BELO HORIZONTE
UBERLANDIA
UBERABA
TAUBATE
NHTEROI
MARILIA
CAMPINA
RIO DE JANEIRO
POCOS DE CALDAS
SAO PAULO
SANTO
PARAGUAY
Parana
CHACO
CURITIBA
LA QUIACA
ASUNCION
TERESINA
CHILE
RIVA DAVIA
FORMOSA
ENCARNACION
FLORIANOPOLIS
ANTOFAGASTA
SALTA
POSADAS
CORIENTES
SANTA MARIA
RESISTENCIA
TUCUMAN
SANTA TOME
PORTO ALEGRE
CATAMARCA
SANTIAGO
SOUTH
CONCORDIA
TACUAREMBO
CORDOBA
SANTA FE
SALTO
MELO
S JUAN
ST LUIS
ROSARIO
URUGUAY
INDEPENDENCIA
COLONIA
MONTEVIDEO
VALPARAISO
SANTIAGO
MENDOZA
B AIRES
LA PLATA
ATLANTIC
SANTA ROSA
AZUL
MERCEDES
MAR DEL PLATA
TALCA
C CORIENTES
BELGRANO
CONCEPCION
LOS ANGELES
BAHIA BLANCA
TEMUCO
VALDIVIA
OCEAN
PUERTO MONT
CIUDAD DE BARILOCHE
ESQUEL
STANLEY
GALLEGOS
Falkland Islands
PUNTA ARENAS
USHUAIA
QUEZALTE NANGO
BELIZE
BR. HONDURAS
GUATEMALA
ANTIGUA
MAZATE NANGO
GUATEMALA CITY
ZA CAPA
LA CEIBA
SAN PEDROSULA
HONDURAS
SANTA ANA
SAN SALVADOR
GOMAYAGUELA
SAN MIGUEL
TEGUCIGALPA
EL SALVADOR
CHINAN DEGA
JINOTEPE
MATA GALPA
LEON
NICARAGUA
MANAGUA
MASAYA
GRANADA
RIVAS
BLUE FIELDS
Carribbean Sea
LIBERIA
SANTA CRUZ
COSTA RICA
PUNTARENAS
HEREDIA
SAN JOSE
LIMON
CARTAGO
CANAL ZONE
DAVID
COLON
PANAMA
PANAMA
SANTIAGO
BALBAD
CHITRE
PENONOME

Call	kc/s	m	kW	m.w.	Name – hours of transmissions
10) ES	6178	48.55	1.0		LV de St. Marc: 11.00–01.00
11) HW	6200	48.39	1.2	1330	R. Haiti: 11.00–04.00, Sun.: 13.30–00.30.
12) CP	6220	48.23	0.3	1490	LV du Nord: 12.00–15.00, 20.30–01.30
6) C	9545	31.43	7.5	1080	R. Commerce
7) WI	9760	30.74	0.4		LV Evangelique: inactive
7) WI	9770	30.71	0.4		LV Evangelique: see below
7) WI	11850	25.32	0.4		LV Evangelique: inactive
11) RW	15240	19.69	0.8	1330	R. Haiti: 11.00–04.00 Sun.: 13.30–00.30
7) WI	15360	19.53	0.4		LV Evangelique: see below
7) WI	17700	16.95	0.4		LV Evangelique: inactive
7) WI	21525	13.94	0.4		LV Evangelique: inactive

Medium Waves: °=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
13)	590	0.065	6) A	°1080	1.2	11) W	°1330	2.0
2) I	°755	1.0	16)	1145		19) S	1385	1.0
1) U	760	0.25	17)	1185		20) GM	1430	1.0
14)	980		18) M	1250	1.0	12) EA	°1490	0.6
15)	1010	0.25						

Short Waves:
1) P.O.Box 71, Cayes.**V.** by letter.
2) Gonaives. – **ANN.:** "Ici Radio Indépendance, Poste 4VGS à Gonaives, Rép. d'Haiti, Grandes Antilles". – **V.** by QSL-card.
3) Port de Paix.
4) P.O.Box 112, Gonaives. – **ANN.: F.:** "Ici la Voix des Gonaives, Radiodiffusion populaire émettant des Gonaives, Haiti, Grandes Antilles". – **V.** by letter.
5) Cayes. – **N.:** 20.00, 22.00, 00.30. Sun. 21.00.
6) Box 1143, Port-au-Prince. – **Cable:** "Radioco". – **D. Prgr.: English:** Sun. 22.00–22.30 ("Glimpses of Haiti"), 23.30–24.00 ("Faris Star Time"). – **ANN.:** "Ici Radio Commerce". – **V.** by letter and QSL-card.
7) R. STATION 4VEH, Box 1, Cap Haitien. – **L.P.:** Dir. Gen.: Dr. E. Erny. Mgr. & Dir. Tec.: M. E. Picazo. Dir. Adm.: Dr. W. A. Gillam. **Home Service. In French, Creole:** D. exc. Thurs.: On 6000, 9770 kc/s: 11.00–12.00, 17.00–19.00, 23.00–24.00 (exc. Wed.), Sun. 18.00–20.00, 23.00–24.00.
Foreign Service:
I=W.I./No.Am. II=W.I. III=W.I./So.Am. IV=No.Am.

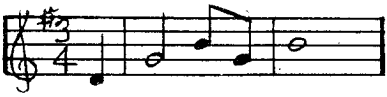
Time	Areas	Languages	m.b.
09.45–11.00 a)	I	**English**	49–31
11.00–12.00 b)	II	French/Creole	49–31
12.00–13.00 c)	III	Spanish	49–31
13.00–15.00 d)	II	**English**	49–31
22.15–23.00 e)	III	Russian	49–31
23.00–24.00 e)	II	French/Creole	49–31
*00.00–01.00 e)	III	Spanish	49–31
*01.00–03.00 e, f)	IV	**English**	49–31
03.00–04.00	IV	**English**	49–19
18.00–20.00 g)	II	French/Creole	49–31
20.00–22.15 g)	I	**English**	49–31

a) Sun. 10.15–12.00. b) exc. Sun. c) Sun. 12.00–12.30
d) Sun. 12.30–14.00. e) exc. Wed. f) Mo. 01.00–03.00.
g) Sun. only. * Sun., Mo. and Tues. only.

English Programme:
Bulletin Board (prgr. Preview & Station news): Mo. 10.45–11.00, Sun. 02.45–03.00. – **Mbg.:** Sat. 10.30. 14.30. Tues.: 02.00. – **DX'ers Corner:** Tues. 02.45–03.00, Wed. 10.45–11.00.

ADV.
The Evangelistic Voice of the West Indies is now owned and operated by the **ORIENTAL MISSIONARY SOCIETY.** This is an internationally known organization with missionary work in the Far East, Europe, Africa and Latin America, and is now utilizing this radio voice to reach **"AROUND THE WORLD WITH THE GOSPEL".**

8) Cap Haitien.
9) Cap Haitien. – **ANN.:** "Ici Radio Citadelle, Poste 4VWA au Cap Haitien, Capitale touristique de la Rép. d'Haiti, Grandes Antilles". – **V.** by QSL-card.
10) Rue Louverture 158, St. Marc.
11) P.O. Box 737, Port-au-Prince. – **L.P.:** Dir. Gen.: C. R. Wiedmaier. **English:** Sun. 23.00–24.00. Fri. 02.30–03.00. – **ANN.:** F., E., Sp.: "Vous écoutez R. Haiti, postes 4VW, 4VHW et 4VRW". – **INT.-SIG.:** Gong (4 notes). – **V.** by QSL-card. – **F.PL.:** FM.



12) Cap Haitien. – **ANN.: F.:** "Ici la Voix du Nord, Poste Commercial de Radiodiffusion 4VCP, a affilié à la chaire de la Paix des Nations Unies...". – **Sp.:** "La Voz del Norte". **E.:** "The Voice of the North".
Medium Waves: D. PRGR.: Approx. 12.00–03.00.
13) Port-au-Prince.
14) **Radio Carillon,** Port-au-Prince.
15) **Petionville Broadc. System,** Petionville.
16) **Radio Caribe,** Port-au-Prince. – **D.Prgr.:** 12.00–03.00.
17) **Radio Tropic,** Port-au-Prince.
18) **Radiodiff. Haitienne,** Ruelle Jeanty, Port-au-Prince.
19) **R. Port-au-Prince,** Rue Pavee, Port-au-Prince. – **ANN.:** "Ici Port-au-Prince, poste 4VS". – **V.** by letter.
20) **Magloire Broadc. Circuit,** Port-au-Prince. – **D. Prgr.:** 16.00–03.00.

★ HONDURAS (British) ★

L.T.: GMT÷6 h. – **Pr. L.:** English, Spanish. – **Po.:** 85.000. – **Rcvrs.:** 10.000. – **E.C.:** 110/220 V., A.C., 60 c/s.
BRITISH HONDURAS BROADCASTING SERVICE (Go.)
ADDR.: P.O. Box 315, Belize. – **L.P.:** Dir.: G. V. de Freitas. Dir. Engineering: A. H. Dickinson. Dir. Prgr.: A. L. Ayuso.
HOME SCE.: 1280 kc/s 235 m 1 kW – 3300 kc/s 90.85 m 5 kW: **English:** 12.30–14.00, 18.00–19.00, 23.00–04.10. **Spanish:** 18.45–19.00, 23.00–24.00. **N., Wrp.:** 18.45, 23.45 – Sun. 12.30–19.00, 23.00–04.20.
ANN.: E.: "This is the British Honduras Broadcasting Service". – **Sp.:** "Este es el Servicio Radiodifusor de Honduras Británica". – **INT.-SIG.:** Greensleeves. – **V.** by QSL-card. R.p. – **PUB.:** Prgr. sched. monthly. Free to local listeners. Overseas listeners prepayment of postage 10 c. pr. copy.

★ HONDURAS (Rep.) ★

L.T.: GMT÷6 h.; Su. GMT÷5½ h. – **Pr. L.:** Spanish. – **Po.:** 2.000.000. – **Rcvrs.:** 45.000. – **E.C.:** 220 V., A.C., 60 c/s. – All st. comm.
DIRECCION GENERAL DE COMUNICACIONES ELECTRICAS, Palacio Nacional, Tegucigalpa.
STATIONS: Short Waves. Call: HR–

Call	kc/s	m	kW	mw	Station/h. of tr.
1) QN3	4880	61.48	0.5	1150	La Voz del Atlantico: 15.00–03.00
2) TP3	4930	60.85	0.5	1450	La Voz de Olancho: 12.00–04.00
2a) W	4995	60.06	0.5		R. Juventude: 13.00–05.00
3) N	5950	50.42	2	670	La Voz de Honduras: 12.00–05.00
4) VW4	5965	50.28	0.5	580	La Voz de C. America: 13.00–04.00
5) 1	5995	50.04	1	1400	El Eco de Honduras: 14.00–05.00
6) QR4	6005	49.96	0.3	1320	La Voz del Pueblo: 13.00–05.00
7) OW2	6028	49.77	1	845	R. Monserrat: 12.00–04.00
8) TL2	6035	49.71	1.5	980	R. Tegucigalpa: 12.00–06.00
9) LP3	6050	49.59	0.5	610	R. America: 13.00–05.00
10) YN4	6060	49.50	0.3	740	La Voz del Merendón: 13.00–04.00
11) MH5	6075	49.38	0.5	1500	La Voz del Junco: 11.30–04.00
12) NQ4	6085	49.30	1	775	R. Morazán: 13.00–04.00
13) XW2	6110	49.10	0.5	1200	R. Comayagüela: 12.00–04.00
14) Q4	6125	48.98	1	1250	R. Suyapa: 12.00–05.00
15) ME2	6135	48.90	0.25	1350	La Voz del Patio: 13.00–05.00
16) XN4	6145	48.82	0.3	1040	R. Concordia: 12.00–04.00
17) UC	6155	48.74	2	865	R. Centro: 12.00–06.00
18) TW4	6175	48.58	1	715	Unión R. Hondureña: 12.00–05.00
19) MT4	6185	48.50	0.5	640	R. Molino Rojo: 12.00–04.00
20) D2	6195	48.43	0.5		La Voz de Atlantida: 12.00–04.00
21) RH5	9543	31.44	0.5	1370	La Voz de Occidente: 13.00–05.00
22) ZN	9610	31.22	1	890	R. Pinares Honduras: 13.00–04.00

Medium Waves: D. PRGR.: Approx. 12.00–05.00.
23) XA 1280 234.0 0.5 R. Deportes: 12.00–06.00
1) Barrio La Curva, Puerto Cortés.
2) Juticalpa, Olancho. 2a) A. Griffin h., Barrio El Centro, Tela.
3) Avenida Lempira, Tegucigalpa. D.C.
4) Apartado 120, San Pedro Sula.
5) San Pedro Sula, Honduras.
6) Av. de La Paz, Tegucigalpa. D.C.
7) **Cable:** "Monserrat". **ANN.:** H.R.O.W.R. Monserrat, la emisora de los hondureños en Tegucigalpa, Honduras, C. América". – **V.** by QSL-card.
8) J. E. Fléfil, Tegucigalpa, D.C.
9) Barrio La Guadalupe Tegucigalpa, D.C.
10) Barrio Paz Barahona, San Pedro Sula. – **V.** by letter.
11) Santa Barbara, S.B.

12) P.O. Box 393, Tegucigalpa, D.C.
13) 4a. Calle, Comayagüela. – V. by QSL-card.
14) Apartado 33, San Pedro Sula. – V. by letter.
15) La Ceiba, Atlántida.
16) Colonia Reforma, Tegucigalpa, D.C.
17) Propietario: Manuel Villeda Toledo, Tegucigalpa D. C.
18) Apartado 734, Tegucigalpa, D.C. – ANN.: "Radio Televisiòn Hondurana – V. by letter.
19) San Pedro Sula, Honduras.
20) La Ceiba, Atlántida.
21) Santa Rosa de Copán.
22) Elias Chahin Ventas a Plazos Tegucigalpa.
23) Iglesia Catolica Nacional, Tegucigalpa.

★ MARTINIQUE (French West Indies) ★

L.T.: GMT÷4 h. – Pr. L.: French. – Po.: 250.000. – Rcvrs.: 10.000. – E.C.: 110/220 V., A.C., 50 c/s.

R. MARTINIQUE

ADDR.: Radiodiffusion Française, Fort de France.
HOME SCE.: 1500 kc/s 200 m 1 kW: 6145 kc/s 48.82 m 1 kW: W.: 10.15–11.30, 16.15–17.45 (Sat. 19.00), 22.30–01.30 (Sat. 22.00–02.00). Sun.: 10.45–14.15, 16.15–19.30, 22.00–02.00.
ANN.: "Ici Fort-de-France, Radiodiffusion Française".
INT.-SIG.: First eight notes of "Adieu Foulards, Adieu Madras"; piano.

★ NETHERLANDS ANTILLES ★

L.T.: GMT÷4½ h. – Pr. L.: Dutch, Papiamento, English, Spanish – Po.: 194.000. – Rcvrs.: 41.000. – E.C.: 125 V., A.C., 50 c/s.

CURAÇAO

RADIO CUROM (Association: "Curacaosche Radio Vereeniging")
ADDR.: P. O. Box 31, Willemstad, Curaçao. – Cable: Curaver. – L.P.: Dir. Gen.: C. G. Grootens. Mgr., Dir. Prgr.: A. Cloo. Dir. Adm.: Miss E. Martes. Dir. Tec.: S. Volkerts.
HOME SCE.: PCJ-2 855 kc/s 346.8 m 10 kW.
11.00–03.30. Sun. 13.30–17.30, 21.30–03.30. – N.: Dutch: 11.30, 17.00, 22.50, 03.25.
ANN.: E.: "This is Willemstad, Curaçao – Radio-Curom". Dutch: "U luistert naar de Curom te Willemstad, Curaçao". Papiamento: "Aki ta Curom na Willemstad, Corsow." – INT.-SIG.: Movements from "Piet Hein-rhapsody" (Dutch trad.). – V. by QSL-card. – PUB.: Monthly "Curom-Gids"; for members only.

RADIO HOYER (Comm.)
ADDR.: Julianaplein No. 21, Willemstad. Cable: Radioyer. – L.P.: Dir. Gen.: H. E. Hoyer. Mgr.: E. Hernandez. Dir. Tec.: S. Gilmoore.
HOME SCE.: Dutch, English, Spanish, Papiamento:
PJC7-1 1010 kc/s 297 m 1 kW: 09.30–03.30 (Sun. 12.30–02.30)
PJC7-2 1500 – 200 – 1 – : 12.30–03.30 (Sun. 13.30–02.30)
ANN.: E.: The first 3 bars of Curacao's anthem followed by: "This is station PCJ7 R. Hoyer transmitting on...". – V. by QSL-card. – F.PL.: Plans to operate a tr. on Bonaire Island.

RADIO CARIBE (Comm.)
ADDR.: Nieuwestraat 22B, Willemstad. – L.P.: Dir. Gen., Prgr., Tec.: C. R. Heilegger. Dir. Adm.: H. A. Heilegger. Dir. Tec., Foreign Rel.: G. A. T. Heilegger.
PJL3 1230 kc/s 243.9 m 0.25 kW: 11.00–04.30 in Dutch, Spanish, English, Papiamento. – English: W. 11.00–13.00, 16.30–19.15, 01.00–04.30 (Tues., Thurs., Sat. 01.00–02.30 in Dutch & English); Sun.: 12.30–16.30, 20.30–23.00, 00.30–02.30. Dutch: W. 14.30–16.30; Sun. 17.30–20.30, 23.00–00.30, 02.30–04.30. Spanish: Sun. 16.30–17.00. Spanish/Papiamento: W. 13.00–14.30, 19.15–01.00. – ANN.: E.: "This is R. Caribe broadcasting on its assigned frequency of 1230 kc/s 243.9 m"; announcements in Dutch, Spanish and Papiamento are similar. – V. by letter and QSL-card. – F.PL.: 1 kW on 1230 kc/s.

ARUBA

RADIO KELKBOOM (Comm.)
ADDR.: P. O. Box 9, Oranjestad. – L.P.: Mgr.: C. A. Kelkboom.
HOMR SCE. in Papiamento, Dutch, English, Spanish:
PJA5 1435 kc/s 209 m 1 kW: W.: 16.00–18.00, 20.30–02.30. Sun.: 14.30–18.00, 20.30–03.00. – V. by QSL-card.

VOICE OF ARUBA (Comm.)
ADDR.: Korteweg No. 4, Oranjestad. – L.P.: Mgr., Dir. Adm.: A. Arends. Dir. Tec.: D. Odor.
HOME SCE.: PJA10 655 kc/s 457 m 1 kW: 10.30–02.30; in Dutch, English, Spanish. – ANN.: "You are tuned to Station PJA10 – The Voice of Aruba". – INT.-SIG.: 4 strokes on a 4 metal bar percussion instrument. – V. by QSL-card or letter.

RADIO VICTORIA (sponsored and owned by the Evangelical Alliance Mission – TEAM).
ADDR.: Oranjestad. – L.P.: Station Mgr.: Rev. N. F. Mydske. Dir. Tec.: Rev. R. Bedard.
HOME SCE. in Dutch, Papiamento, English, Spanish:
PJA6 920 kc/s 326 m 5 kW: W. 16.00–18.00, 20.30–03.00 Sun. 11.30–14.00, 17.30–23.30. – N. in English: W. 17.00, 00.30. – N. in Spanish: W. 16.45, 22.30. – N. in Papiamento: W. 23.30.
ANN.: E.: "This is R. Victoria, The Cultural Voice of the Caribbean". Sp.: "Transmite R. Victoria, La Voz Cultural del Caribe". – V. by letter. – PUB.: Prgr. schedule free upon request.

★ NICARAGUA ★

L.T.: GMT÷6 h. – Pr. L.: Spanish. – Po.: 1.288.000. – Rcvrs.: 30.000. – E.C.: 110/220 V, A.C., 60 c/s.
All stations commercial except 18) (Go.), 1) (Cultural) & 22) (Rel.).

JEFATURA DEL RADIO NACIONAL, Apt. No. 209, Managua.
STATIONS: Short Waves. Call: YN---.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	RC	5810	51.63	0.25		R. Cultural
2)	WW	5965	50.28	0.5	650	R. Sport[2])
3)	DG	5995	50.04	1.0		R. Colonial
4)	BH	6000	50.00	0.3	1230	R. Panamericana
5)	LU-A	6040	49.67	0.5		R. City
6)	EQ	6065	49.46	0.45	1100	La Voz de la Victoria
7)	WA	6140	48.96	0.4	930	R. Mundial[1])
8)	VP	6185	48.50	0.5		La Voz de Nicaragua
9)	UW	6190	48.47	0.25	1180	R. Dario[2])
10)	WN	7312	41.03	0.15	1450	R. Granada
11)	RM	7602	39.46	0.5	1090	R. Musun[2])
12)	MS	7660	39.16	0.25	1410	R. Philips: 13.00–05.00
13)	CA	7753	38.67	0.15	1520	R. Atlantico: 16.00–20.00, 23.00–04.00
14)	BX	7890	38.02	0.1		R. Oriental

Medium Waves: Call: YN---. °)=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
16)	HP	575	1	7)	W	°930	10[1])	4)	BH	°1230	1
17)	RD	590	3[2])	24)	LU	965	1.7	31)	CW	1240	0.5[2]
18)	RN	615	10	25)	OP	980	0.25	32)	WX	1270	2.5
2)	WW	°650	1[1])[2])	26)	XC	1000	3	33)	RA	1300	0.37
19)	DS	675	2.5	7)	W3	1025	1[1])	34)	XZ	1320	0.2
15)	SC	700	1	27)	LL	1050	0.25[2])	35)	GF	1360	0.25
20)	X	750	5	28)	TW	1070	0.18	12)	MS	°1410	0.15
7)	W2	775	1[1])	11)	RM	°1090	0.25[2])	10)	WN	°1450	0.15
21)	R	800	1	6)	Q	°1100	0.75	13)	CA	°1520	0.15
22)	OL	825	10	29)	WS	1130	0.75	36)	AS	1560	0.25
23)	MV	850	10	30)	BB	1150	0.4[2])				
7)	W1	875	1[1])	9)	UW	°1180	0.1[2])				

[1]) R. Mundial Nicaraguan Broadcasting Network.
[2]) R. Deportes Nicaraguan Sports Network.

Short Waves: D. PRGR.: Approx. 12.00–06.00.
1) Mangua. – L.P.: Dir.: Fco. C. Martinez.
2) Granada. – L.P.: Dir.: M. Arana Valle.
3) León. – L.P.: Dir. D. E. Gallo.
4) Managua. – L.P.: Dir.: G. Rivas. – ANN.: "Aqui Radio Panamericana en Managua, Nicaragua". – INT.-SIG.: Xylophone. – V. by letter.
5) Managua. – L.P.: L. F. Hidalgo.
6) Apt. 338, Managua. – L.P.: Dir.: A. Solis.
7) 5a Av. N.O. 703, Managua. – L.P.: Dir. Gen.: M. Arana Valle. – D. Prgr.: 12.00–05.00.
8) Garcia y Cia, Managua. – L.P.: Dir.: F. R. Tellez.
9) León. – L.P.: Dir. J. Toruño C.
10) Granada. – L.P.: Dir.: N. W. Navas.
11) Matagalpa. – L.P.: Dir. J. J. Arauz B.
12) Apt. 27, León. – L.P.: Dir.: M. A. Solis. – V. by letter.
13) Bluefields. – L.P.: R. Tijerino S. – D. Prgr.: in Spanish, English.
14) Granada. – L.P.: Dir.: J. Mena P.
15) Managua. – L.P.: Dir.: S. Cardenal A.

Medium Waves:
17) R. Minerva, Masaya. – L.P.: Dir.: H. Porta C.
18) R. Deportes, Managua. – L.P.: Dir. F. A. Valle.
19) Radiodifusora Nacional, Managua.
20) Union Radio, J. G. Saenz & Cia, Managua.
21) Estacion X, Apartado 1849, Managua.
22) R. Reloj, Managua. – L.P.: R. Arana S.
23) Ondas de Luz, Box 607, Managua. – L.P.: Dir. Gen.: A. Guido G. Dir. Prgr.: M. D. Houk, Coordinator. David C. Solt. – D. Prgr.: 00.00–02.00. – ANN.: "YNOL, Ondas de Luz, con su lema: Orientando su camino con la luz de la verdad". – V. by letter.
24) R. Continental, Ave Este 1200, Managua.
26) R. Managua, Managua. – L.P.: Dir.: L. F. Hidalgo.
27) Emisora Cultural Carazo, Jinotepe. – L.P.: Dir.: A. O. Palacio.
28) R. Excelsior, Managua. – L.P.: Dir.: F. R. Tellez.
29) R. Masaya, Masaya. – L.P.: Dir.: L. Correa Lacayo.
30) R. Centro, Granada. – L.P.: Dir.: G. Munguia.
31) La Voz del Tropico, León. – L.P.: Dir.: J. Maria S.

32) **La Voz de la Segovia**, Esteli. – **L.P.**: Dir.: J. R. Barrantes C.
33) **R. Occidental**, Chinandega. – **L.P.**: Dir. J. E. Castillo C.
34) **R. Atenas**, León. – **L.P.**: Dir.: N. Icaza.
35) **La Voz de Chinandega**, Chinandega. – **L.P.**: Dir.: A. Rivas C.
36) **R. Cocibolca**, Granada. – **L.P.**: Dir.: O. Ocon L.
37) **R. Diriamba**, Diriamba. – **L.P.**: Dir.: R. Guardia F.
38) **Ondas del Xolotlan**, Managua. – **L.P.**: Dir.: A. Castro W.

★ PANAMA ★

L.T.: GMT÷5 h. – **Pr.L.**: Spanish. – **Po.**: 1.009.000. – **Rcvrs.**: 130.000. – **E.C.**: 110/220 V., A.C., 60 c/s.

GOVT. DEPT. JURISDICTION: RADIO BROADCASTING IN PANAMA

ADDR.: Direccion de Correos y Telecomunicaciones, Ministerio de Gobierno y Justicia, Panamá. – **Cable**: "Dirgentel". – **L.P.**: Chief Eng. Telecomunicaciones: Ing. R. D. Prescott.
Comm. exc. HOXO (religious), ACA20/ACB20 (military).
STATIONS: Short Waves: Call: HO---. C=Circuito.

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
1)	L21	5960.8	50.34	0.6	670	R. Hogar	11.00–03.00
2)	M50	5995	50.04	1.0	610	C.R.P.C.	10.55–05.00
3)	HP5K	6005	49.96	1.0	1500	La Voz de la Victor	11.00–04.00
4)	HP5B	6030	49.75	0.25	730	R. Cadena Miram.	11.00–04.00
5)	U31	6045	49.63	1.0	1025	La Voz del Baru	11.00–03.00
6)	RT	6060	49.50	0.3	1410	R. Balboa	11.00–02.00
7)	OH	6090	49.26	0.3	1470	R. Independiente	24 h.
8)	HP5H	6122	49.00	0.5	900	La Voz del Pueblo	11.00–03.00
9)	QQ	6140	48.86	0.5	1250	R. Nacional	12.00–23.00
10)	HP5G	6175	48.58	0.3	700	R. Panamericana	11.00–04.00
11)	LA	9505	31.56	0.25	1390	R. Atlantico	15.00–01.00
12)	HP5J	9607	31.23	0.5	1380	La Voz de Panamá	11.00–13.00 17.00–19.00, 22.30–03.00
13)	J53	9645	31.10	0.3	1130	R. Provincias	11.00–03.00
2)	F31	9685	30.98	1.0d	610	Onda. Popular	10.55–05.00

Medium Waves: Call: HO---. °=Short Wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
14)	N31	550	1.0	25)	R59	990	1.0	40)	J22	1265	0.15
2)	H2	°560	0.5	26)	U44	1015	1.0	41)	JU	1280	0.25
2)	H3	°580	1.0	2)	F2	°1020	0.25	22)	S23	1295	0.5
2)	HM	°610	10.0	5)	U	°1025	1.0	11)	K3	°1310	0.3
15)	K	640	0.25	27)	U23	1030	0.3	42)	L55	1315	1.1
2)	H4	°660	1.0	28)	S22	1035	0.3	43)	M92	1330	1.0
1)	LY	°670	0.5	29)	J2	1040	0.4	37)	O39	1340	0.2
16)	F32	680	0.3	30)	B41	1050	0.12	4)	X24	°1355	0.3
10)	A	°700	1.0	12)	HPM21	°1060	0.5	37)	O38	1370	0.2
4)	X45	°715	0.5	31)	D21	1070	0.25	12)	HP6J	°1380	0.25
4)	HP5C	°730	0.5	19)	G2	1090	0.25	11)	L	°1390	0.25
4)	X44	°745	0.5	32)	R58	1100	0.5	44)	HS	1400	0.5
17)	XO	760	5.5	33)	M21	1115a	0.25	6)	RS	°1410	0.5
18)	ACA20	790	5.0	2)	F4	°1120	1.0	18)	ACB20	1420	1.0
2)	F33	°810	1.0	13)	J	°1130	0.4	45)	C	1440	0.25
19)	G	830	0.3	34)	B49	1140a	1.0	46)	D42	1460	0.13
20)	HO	870	1.0	35)	S25	1150a	0.25	7)	OH	°1470	1.0
21)	R34	890	1.0	36)	NZ	1170	0.25	3)	N	°1500	0.25
8)	HA	°900	0.25	37)	OC	1180	0.8	47)	M56	1520	1.0
22)	S56	920	0.3	38)	B48	1195a	1.0	48)	HPU28	1540a	0.07
23)	X	940	0.5	39)	E91	1210	4.0	13)	J52	°1560	0.1
24)	B33	950	0.4	10)	W	°1230	0.1	49)	E35	1570	0.1
2)	F	°965	3.0	9)	Q	°1250	0.25	a under construction			

Short Waves:
1) Apt. 1979, Panama. – **L.P.**: Dir. Gen.: F. Beckman. – **V.** by QSL-card.
2) Apt. 1795, Panama. – **Cable**: "Erepece". – **L.P.**: Dir. Gen.: F. Eleta A. Dir. Prgr.: A. Torres. Dir. Tec.: L. O'Meally. – **D. Prgr.**: 10.55–05.00. – **C. RPC**: **M.w.**: HOH2 Colon, HOH3 Chitre, HOHM Panama, HOH4 David. – **S.w.**: HOM50 Panama. – **FM**: HOH/HOH49/HOH86 Panama, HOH87 Chitre. – **N.**: 12.45, 15.30, 18.00, 23.30, 03.00. – **Onda Popular**: **M.w.**: HOF33 Chitre, HOF Panama, HOF2 Colon, HOF4 David. – **S.w.**: HOF31 Panama. – **FM**: HOF87 Chitre, HOH88 Panama. – **N.**: 11.00, 17.00, 00.00. – **V.** by QSL-card.
3) Union Radio S.A., Apt. 33, Colon. – **L.P.**: Dir.: J. Jaén y Jaén.
4) Apt. 1214, Panama. – **L.P.**: Pres.: E. de la Guardia. Mgr.: M. A. Lugue Jr. Dir. Tec.: R. Troncoso N. – **D. Prgr.**: **N.**: 12.00, 18.00, 21.30, 23.00, 24.00, 02.00. – **Nat. Music**: 11.30, 23.30. – **V.** by letter.
5) Apt. 160, David. – **L.P.**: O: Srs. Samudio, Esquivel, Tribaldos.
6) Apt. 4369, Panama. – **L.P.**: O: D. Porras.
7) Apt. 545, Panama. – **L.P.**: O: José A. Sosa.
8) Apt. 1045, Panama. – **L.P.**: O: M. Lombardo Vega.
9) Apt. 552, Panama. – **L.P.**: O: A. de Mena.
10) Apt. 1121, Panama. – **L.P.**: O: G. Arias.
11) Apt. 444, Colon. – **HOK3**: **La Onda de la Alegria.** – **L.P.**: O: A. Galindo.
12) HP5J/HP6J: Apt. 867, Panama. HPM21: **La Voz de Ancon**, Av. Central No. 169, Panama. – **L.P.**: Pres.: M. Diaz Doce. Gen. Mgr.: J. G. Diaz Isaacs. Dir. Gen.: J. A. Tristán Pérez. Dir. Tec.: R. D. Rodriguez. – **D. Prgr.**: **N.**, **Commentary**: W.: 11.30, 17.45, 22.30, 00.00. Sun.: 13.00, 23.30. – **Nat. Music**: W. 01.00. Sun.: 17.00, 00.00. – **Italian**: Sun. 22.00–24.00. – **V.** by letter. – **F.Pl.**: Increase power s.w.
13) Apt. 826, Chitre. HOJ52: Los Santos. – **L.P.**: O: P. Reyes.

Medium Waves: D. PRGR.: Approx. 11.00–04.00.
14) **R. Aeropuerto**, Apt. 4824, Panama. – **L.P.**: Pres.: J. L. Salas.
15) **Cadena Panamena de Radiodif.**, Apt. 33, Colon. – **L.P.**: As 3)
16) **R. Centenario**, Puerto Armuelles. – **L.P.**: O: R. D. Gonzales.
17) **La Voz del Istmo**, Apt. 3269, Panama (Rel.; owned by Latin American Missicn, USA). – **L.P.**: Dir. Gen.: P. Pretiz. Dir. Prgr. R. Bénkema. Dir. Tec.: H. Erickson. – **D. Prgr.**: 11.00(Sun. 11.30): 04.00. **English**: W.: 11.00–15.30, 01.00–04.00. Sun.: 11.30–18.30, 00.45–04.00. Other times Spanish. – **V.** by letter.
18) **Caribbean Forces Network**, (AFRTS), Fort Clayton, C.Z.
19) **Estacion de la Comunidad**, Apt. 1121, Panama. – HOG2: Calle 10a, No. 9080, Colon. – **L.P.**: As 10).
20) **R. Musical**, Apt. 355, Panama. – **L.P.**: O: José E. Sittón.
21) **Ondas del Pacifico**, Apt. 401, Panama. – **L.P.**: O: N. Zurita.
22) **R. Peninsula**, Chitre – HOS23: **R. Guadalupe**, Apt. 5117, Panama. –
23) **R. Betania**, Apt. 1214, Panama. – **L.P.**: As 4).
24) **R. Cultura**, Apt. 249, David. – **L.P.**: O: G. Naranjo.
25) **R. Leblanc**, Ca. 16, Oeste 13A–20, Panama.
26) **R. Reloj**, Apt. 5124, Panama. – **L.P.**: Dir. Gen.: O. Mocci. – **V.** by QSL-card.
27) **R. Zarati**, Penonome. – **L.P.**: O: A. de Rodriguez.
28) **R. Mia**, Apt. 5117, Panama. – **L.P.**: As 22).
29) **Ondas del Canajagua**, Las Tablas. – **L.P.**: O: F. Jolly.
30) **La Voz de Bocas del Toro**, Bocas del Toro.
31) **Ondas del Caribe**, Av. Melendez y Roosevelt 8044, Colon.
32) **R. Rumbos**, Apt. 4421, Panama. – **L.P.**: O: J. R. Auerbach.
33) Panama City (under construction). – **L.P.**: O: J. L. Torres.
34) Panama City (under construction). – **L.P.**: O: S. Chacón P.
35) Colon (under construction). – **L.P.**: O: Gladys G. de Sevillano.
36) **Ondas Istmenas**, Apt. 3237, Panama. – **L.P.**: As 21).
37) **C. de Ondas Chiricanas**, Apt. 172, David – HCO38: La Concepcion – HCO39: Bcquete. – **L.P.**: O: E. del C. Calvo.
38) Aguadulce (under construction). – **L.P.**: O: C. E. Urriola.
39) **R. El Mundo**, Apt. 1566, Panama. – **L.P.**: O: M. P. de Valdes.
40) **La Voz de America**, La Chorrera. – **L.P.**: O: as 22).
41) **La Voz del Vigia**, Aguadulce. – **L.P.**: O: J. Férez Jr.
42) **R. Reforma**, Apt. 1201, Chitre. – **L.P.**: O: P. S. Villalaz. **D. Prgr.**: 10.57–03.30 – **V.** by QSLcard.
43) **R. Noticias**, Apt. 5219, Panama. – **L.P.**: O: V. F. Goytia.
44) **Ondas Centrales**, Santiago. – **L.P.**: O: H. Santacolcma. – **V.** by letter.
45) **Cadena Panamena de Radiodif.**, Panama. – **L.P.**: As 3).
46) **La Voz de Almirante**, Ca. 6a y Ave. Bocas del Toro.
47) **R. David**, Apt. 328, David. – **L.P.**: O: F. M. Luna.
48) **Emisora de la Universidad**, Panama (under construction).
49) **La Voz del Tropico**, Colon. – **L.P.**: O: L. E. Ortiz.

—BRITISH WEST INDIES (Federation of)—

★ BARBADOS ★

L.T.: GMT÷4 h. – **L.**: English. – **Po.** 216.000 **Rcvrs.**: 2000 – **E.C.**: 110 V. A.C., 60 c/s.
BARBADOS REDIFFUSION SERVICE LTD. (Wired Broadc. Priv. Comm.). – **ALLR.**: Trafalgar St., Bridgetown. – **L.P.**: Gen. Mgr.: R. W. R. Oliver. – **D. PRGR.**: 10.00–03.00. Wired broadc. sce.

★ JAMAICA ★

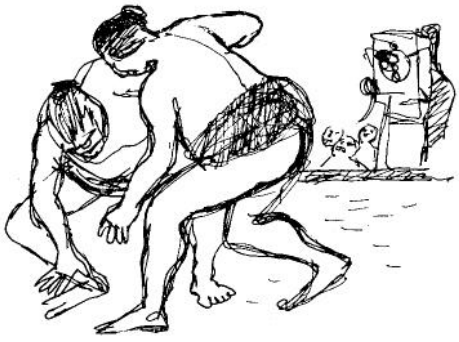
L.T.: GMT÷5 h. – **Pr. L.**: English. – **Po.**: 1.650.000. – **Rcvrs.**: 125.000. – **E.C.**: 110/220 V., A.C., 40 c/s.
R. JAMAICA LTD. (Comm.)
ADDR.: 32, Lyndhurst Rd., Cross Roads, Kingston 5. – **Cable**: "Broadco". – **L.P.**: Man. Dir.: W. MacLurg. Dir. Tec.: A. R. Aldridge B. Sc. Sales Mgr.: A. L. Hendriks, ASMA.
HOME SCE. in English: 09.55–05.00. Calypso music used in prgrs.

Mandeville	770 kc/s	5 kW	Point Galina	580 kc/s	5 kWd
Kingston	720 –	5 –	Montego Bay	550 –	5 –

ANN.: "This is R. Jamaica and Rediffusion". – **V.** by QSL-card.

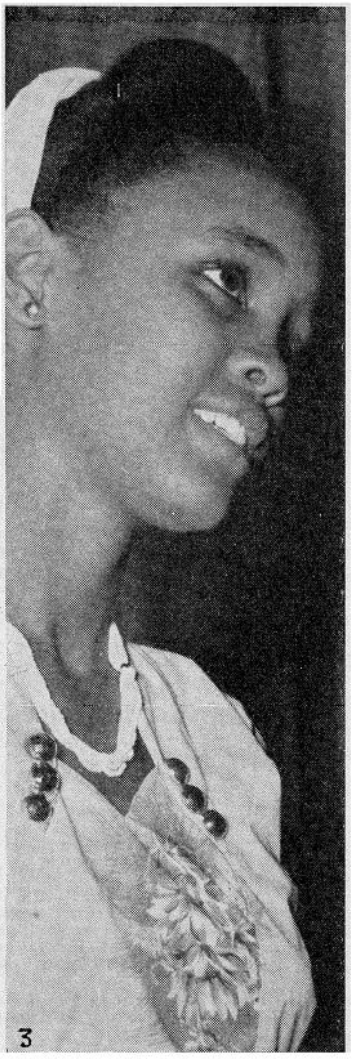
★ LEEWARD ISLANDS ★

L.T.: GMT÷4 h. – **Pr. L.**: English. – **Po.**: 130.000. – **Rcvrs.**: 5000. **E.C.**: 220 V., D.C.
RADIO ANTIGUA (Co.)
ALLR.: c/o Administrator's Office, Antigua, B.W.I.
L.P.: Organizer: M. Branch. Adm.: E. A. M. John. Tec.: G. A. Thibou.
HOME SCE.: 3255 kc/s 92.16 m 0.04 kW: Mo., Wed.: 10.30–11.00, 23.00–24.00. Fri. 10.30–11.00. Sun. 20.00–21.00. – **N.**: 20.00. **Request Prgr.**: 23.00.



1

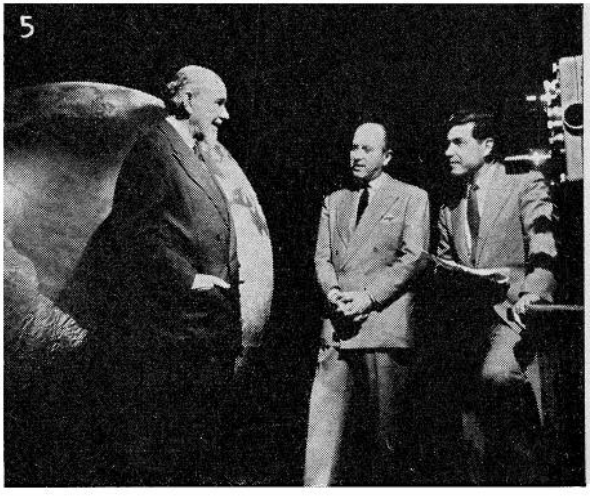
2



3

1. **Japan:** Wrestling is a traditional and popular Japanese sport.
2. **Indonesia:** Balidance.
3. **Radio Somali:** A Somali singer.
4. **Radio Panamericana Peru:** Pepe Ludmir interviewing in Hollywood Clark Gable for use in his popular prgr.: "The Stars Hour", which is broadcasted from Radio Panamericana, Lima, daily at 19.00. Left the wife of Mr. Gable.
5. **United Nations Television:** Progr. "On Law of the Sea" UNTV has recently completed a fifteen minute television programme on the law of the sea, with Sir Hubert Wilkins, the explorer, as narrator, and Mr. Constantin Stavropoulos, Legal Counsel to the U.N., who sums up the achievements of the recent UN Conference on the Law of the Sea held in Geneva. The programme, which includes film sequences, illustrates the many aspects of the subject, ranging through pearl fishing and oil drilling on the continental shelf to the problem of territorial waters and the regime of the high seas. It has been issued in English, German, Italian, Serbo-Croat and Spanish. Sir Hubert Wilkins, Mr. Constantin Stavropoulos and producer Jose Quijano on the set in UNTV studio.

4



5

ANN.: "This is R. Antigua broadcasting on 3255 kilocycles or a wavelength of 92.16 m". – V. by letter. – F.PL.: 0.5 kW. tr.

RADIO MONSERRAT (Go., Comm.)
ADDR.: P.O. Box 201, Plymouth, Monserrat. – Cable: Radmon.
HOME SCE.: 1550 kc/s 193.5 m 0.25 kW.
W.: 00.00–02.00. Sat. also 14.00–15.00. Sun. 20.00–22.00.
ANN.: "This is R. Monserrat, the Friendly Station of the Leeward Islands, broadcasting on a frequency of 1550 kc/s in your medium wave band". – V. by letter.

★ TRINIDAD ★

L.T.: GMT÷4 h. – Pr.L.: English. – Po.: 700.000. – Rcvrs.: 60.000. – E.C.: 220 V., A.C., 60 c/s.

TRINIDAD BROADCASTING COMPANY LTD. (Comm.)
ADDR.: R. Trinidad, Broadcasting House, 11 B Maraval Rd., Port-of-Spain. – Cable: Broadcast. – L.P.: Mgr.: J. M. Laing. Chief Engineer: M. F. Comer.
HOME SCE.: "R. Trinidad", VP4RD: D. 10.00–03.00.
730 kc/s 410 m 20 kW FM: 95.1 mc/s 1 kW
N.: 10.45*), 11.00 (BBC), 12.00*), 13.00 (BBC), 15.00, 16.00 (BBC), 16.30*), 18.00, 20.00 (BBC), 23.45*), 02.00 (BBC). *)=Wrp.
ANN.: "This is R. Trinidad, the Voice of the West Indies". – V. by QSL-card. R.p.

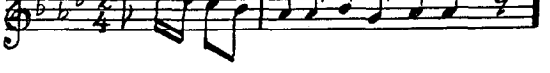
RADIO GUARDIAN (Comm.)
ADDR.: 17 Abercromby St. Port-of-Spain. – Cable: Voice. – L.P.: Mgr.: E. L. Heywood. Dir. Tec.: H. Anderson.
HOME SCE.: D. 10.00–03.00.
610 kc/s 491.8 m 10 kW FM: 98.9 mc/s 0.25 kW
ANN.: "This is Radio Guardian, The Voice of Trinidad. Key Station of the Federation"; and on the hour: "This is Station 610 etc.". – V. by QSL-card.

ARMED FORCES RADIO TV SERVICE: See USA.

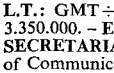
★ WINDWARD ISLANDS ★

L.T.: GMT÷4. – Pr. L.: English. – Po.: 83.000. – Rcvrs.: 20.000. – E.C.: 230 V., A.C., 50 c/s.

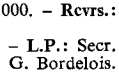
WINDWARD ISLANDS BROADCASTING SERVICE (Go.)
ADDR.: St. George's, Grenada, B.W.I. – Cable: Broadcasts. – L.P.: Mgr. Dir.: A. C. G. Palmer. Dir. Tec.: R. A. Smith.
HOME SCE.: 1) local. 2) For Ea. Caribbean.
1040 kc/s 288.9 m 0.25 kW: 21.00–02.15[1])
3365 – 89.15 – 5 – : 22.30–02.15[2])
5010 – 59.88 – 5 – : 21.00–22.30[2])
9550 – 31.41 – 5 – : Spec. broadc. local daylight[2])
15085 – 19.89 – 0.25 – : 21.00–02.15 (for Jamaica)
N.: D. BBC 23.00, 02.00. – Local N.: Mo.-Fri. 23.45. – Request Prgr.: D. 23.10. – Nat. music: Thurs. 00.45. The Windward Islands Broadc. Sce. network prgr. is daily relayed over the local stations in Roseau, Dominica, Castries, St. Lucia, Kingstown and St. Vincent together with prgrs. from the local studios. Stations: Roseau 1570 kc/s 191 m 0.025 kW, Castries 1580 kc/s 190 m 0.025 kW, and Kingstown 1600 kc/s 187.5 m 0.025 kW.
ANN.: "This is the Windward Islands Broadcasting Service". – INT.-SIG.: A typical calypso phrase played on the "ping-pong", and indigeneous instrument made from the top of a steel drum.



V. by QSL-card. Reports from the West Indies and the Caribbean only. – F.PL.: Scheduled operation 0.25 kW d. in the 11 and 13 m.b., and 5 kW d. in the 16 m.b. to U.K. – PUB.: Prgr. sched. weekly.



SOUTH AMERICA



★ ARGENTINA ★

L.T.: GMT÷4 h. – Pr. L.: Spanish. – Po.: 19.800.000. – Rcvrs.: 3.350.000. – E.C.: 220 V., A.C., 50 c/s.

SECRETARIA COMUNICACIONES, Buenos Aires. – L.P.: Secr. of Communicationes: A. T. Cosentino. Vice-Secr.: F. G. Bordelois. Dir. Gen. Radiodif.: S. S. Guillani.

LRA – R. NACIONAL (Go.)
ADDR.: Ayacucho 1556, Buenos Aires. – L.P.: Dir. Gen.: D. L. A. Quesada.

HOME SERVICE: 11.00–04.00.
Short Waves:

Call	kc/s	m	kW	m.w.	H. of tr.
LRA31	6062	49.49	16	870	11.00–03.00
LRA34	6180	48.54	10	970	13.00–03.00
LRA33	15345	19.55	100	870	13.00–18.30

Medium Waves: °)=Short Wave.

Name	Call	kc/s	kW	H. of tr.
Santa Rosa	LRA3	670	20	13.00–03.00
Salta	LRA4	690	10	13.00–03.00
Córdoba	LRA7	750	50	13.00–03.00
Rosario	LRA5	780	20	11.00–03.00
Formosa	LRA8	780	5	13.00–18.00, 22.00–03.00
B. Aires	LRA	°870	100	11.00–04.00
Mendoza	LRA6	°970	5	13.00–03.00

D. PRGR.: N.: 12.00, 16.00, 24.00, 02.30. – V. by QSL-card.
INTERNATIONAL SERVICE
ADDR.: Radiodifusion Argentina Al Exterior (R.A.E.), Sarmiento 151, Buenos Aires.
STATIONS:
LRA32 9690 kc/s 30.96 m 100 kW d. – LRA33 15345 kc 19.55 m 100 kW d.
To Europe: 19.00–01.00 on 15345 kc/s (each language one h.) – Spanish: 19.00 – German: 20.00 – Italian: 21.00 – French: 22.00 – English: 23.00 – Portuguese: 24.00.
To U.S.A.: 02.00–04.00 (Ea.), 04.02–06.02 (We.) on 9690 kc/s: Spanish: 02.00 – English: 03.00 – Spanish: 04.00 – English: 05.00. One h. each.
Programmes: N., Argentine Music, Folk Music.
ANN.: Spanish: "Aqui Argentina". German: "Hier spricht Argentinien". Italian: "Qui Argentina". French: "Ici l'Argentine". English: "This is Argentina Calling". Portuguese: "Aqui Argentina". – V. by QSL-card.
OFFICIAL STATIONS:
LS1 710 kc/s 20.0 kW R. Municipal, Teatro Colon, B. Aires
LS11 1270 – 30.0 – R. Provincia de B. Aires, Ca. 10 y Av. 53, La Plata.
CULTURAL STATIONS:
LR11 1390 kc/s 1.5 kW R. Universidad de la Plata*)
LT10 1430 – 0.5 – R. Universidad del Litoral**)
*) Plaza Rocha 133, La Plata. **) 9 de Julio y Pellegrini, Santa Fe.
PRIVATE COMMERCIAL STATIONS:
Short Waves:

Call	kc/s	m	kW	m.w.	Name – h. of tr.
1) LRS2	5985	50.13	20	830	R. Splendid: 09.40–04.30
2) LRY1	6090	49.26	40	950	R. Belgrano: 09.45–03.00
3) LRX1	6120	49.02	10	1070	R. El Mundo: 13.00–04.00
1) LRX	9660	31.06	7.5	1070	R. El Mundo: 09.45–04.00
1) LRS1	9742	30.79	20	830	R. Splendid: as 5985 kc/s
2) LRY	9760	30.74	40	950	R. Belgrano: 09.45–03.00
1) LRS	11880	25.25	1.0d.	830	R. Splendid: 09.40–04.30
3) LRU	15290	19.62	10	1070	R. El Mundo: 10.00–13.00

Medium Waves: °)=Short Waves.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
4) LV1	560	10	21) LV7	890	2	37) LV11	1170	3
5) LV12	580	10	22) LU2	900	5	38) LR9	1190	4
6) LS4	590	10	23) LV3	910	12	39) LW3	1190	4
7) LU8	590	1	2) LR3	°950	90	40) LT6	1200	1
8) LS5	620	3	24) LV2	960	7	41) LU10	1200	3
9) LT15	630	5	25) LW8	970	1	42) LV10	1210	2.5
10) LV8	630	5	26) LR5	990	25	43) LT5	1240	1.5
11) LV15	640	1	27) LT4	1010	1	44) LU3	1240	12
12) LU4	640	1	28) LV16	1010	5	45) LV13	1250	3
13) LU12	680	1	29) LT2	1020	15	46) LT9	1260	5
14) LV6	680	10	30) LS10	1030	10	47) LT11	1300	1.5
15) LV4	690	0.5	3) LR1	°1070	50	48) LU13	1300	1
16) LW7	730	1	31) LV5	1090	15	49) LT14	1310	3
17) LU9	780	1	32) LR2	1110	15	50) LV14	1330	1
18) LR6	790	25	33) LU5	1130	1	51) LT7	1340	1
19) LW1	820	15	34) LV9	1130	5	52) LU6	1340	1
1) LR4	°830	50	34a) LV14	1130	1.5	53) LS6	1350	3
20) LT8	840	5	35) LU7	1150	15	54) LT12	1370	1.5
			36) LT3	1160	5	55) LT16	1370	1

SHORT WAVES:
1) Uruguay 1237, B. Aires. – L.P.: Dir. Gen.: A. Rigau. Asesor Artistics: F. Maraffiotti. Dir. Adm.: L. A. Giovaniello. Dir. Tec. Eng. E. D. Grazini. Chief. Eng.: A. Lerena Gabarret.
D. PRGR.: 09.30–04.30. The Reg. Stations rel. the Central Station (LR4) as follows: 09.59–10.30, 10.59–11.06 12.57–13.03 14.52–15.06, 15.19–17.00, 19.59–20.32, 20.53–21.00, 21.58–22.05, 22.53–01.38.
N.: 10.00–10.30 and every h. from 11.00–02.40. – ANN.: "LR4 Radio Splendid, Buenos Aires, con sus ondas cortas, LRS, LRS1 y, LRS2 de la Red Argentina de Emisoras Splendid". – INT.-SIG.: 4 notes on electronic gong (do-mi-sol-do). – V. by letter.
2) Office: Cerrito 941. Studios: Ayacucho 2075, B. Aires. L.P.: Dir.: Dr. Jose O. von Oertel. Comm. Dir. N.: Panizza. Artistical Super-

visor: L. Serta. Chief Eng.: M. Koelble. – **D.PRGR.:** Medium Wave: 09.00–04.15. N. (all in Spanish): 09.00, 11.00, 15.00, 16.00, 20.00, 22.00, 01.00, 03.00, 04.00. – Radio Belgrano network consists of: LV2, LV11, LV12, LV14, LT8, LT12, LT14. – **ANN.:** "Transmite L.R.3 R. Belgrano de Buenos Aires con sus Ondas Cortas LRY, LRY.1 y su circuito de Emisoras". – **INT.-SIG.:** 4 notes on vibraphone. – V. by QSL-card.

3) Maipu 555, Buenos Aires.-**L.P.:** Dir. Gen.: Dr. B. Razetti – **FOREIGN SCE.:** English, Spanish, Portuguese: D. 03.00–04.00 on 6120/9660 kc/s. 11.00–12.00 on 15290 9660 kc/s – **ANN.:** "LR1 R. El Mundo de B. Aires y su Red Azul y Blanca de Emisoras Argentinas". **INT.SIG:** Gong. – V. by QSL-card.

MEDIUM WAVES: 10.00–04.00 (approx.) exc. where indicated.

4) **R. Colon,** Mendoza 369, San Juan.
5) **R. Independencia,** Rivadavia 118/20, Tucuman: 10.00–03.00 (R. Belgrano netw.).
6) **R. Porteña,** Rivadavia 827, B. Aires.
7) **R. Bariloche,** Ci. de Bariloche.
8) **R. Rivadavia,** Arenales 2467, B. Aires: 12.00–09.44.
9) **R. Concordia,** La Rioja 622, Concordia.
10) **R. Libertador,** Entre Rios 73, Mendoza.
11) **R. Mercedes,** Balcarce 470, Villa Mercedes.
12) **R. Comodoro Rivadavia,** M. Moreno 765, Ci. Rivadavia.
13) **R. Rios Gallegos,** Av. S. Martin y Zapiola, Rios Gallegos.
14) **R. Nihuil,** Rioja 1239, Mendoza.
15) **R. San Rafael,** Irigoyen y Francia, San Rafael.
16) **R. Catamarca,** Rivadavia 751, Catamarca.
17) **R. Mar del Plata,** Moreno 2473, Mar del Plata.
18) **R. Mitre,** Arenales 1925, B. Aires: 08.00–04.00.
19) **R. Universidad de Córdoba,** Rivera Indarte 170, Córdoba.
20) **R. Rosario,** Córdoba 1825, Rosario (Belongs to R. Belgrano netw.).
21) **R. Tucumán,** Mendoza 273, S. Miguel de Tucumán.
22) **R. Bahia Blanca,** Donado 25, Bahia Blanca.
23) **R. Córdoba,** San Martin 74, Córdoba.
24) **La Voz de la Libertad,** Maipú 166, Córdoba (R. Belgrano netw.).
25) **R. Jujuy,** R. de Velazco 253: 11.00–03.00. – V. by letter.
26) **R. Excelsior,** Rivadavia 829, B. Aires: 10.57–05.00.
27) **R. Misiones,** Bolivar 322, Posadas.
28) **R. Ranquel,** Colón 78, Rio Cuarto. – **L.P.:** Dir. Gen.: O. M. Reynero. Dir. Tec.: A. Grassi: 10.25–04.00. – V. by letter.
29) **R. Splendid,** Santa Fé 1388, Rosario.
30) **R. Libertad,** Florida 165, B. Aires.
31) **R. Los Andes,** Mendoza 656, San Juan.
32) **R. Argentina,** Santa Fé 2043, B. Aires: 10.30–07.30.
33) **R. Splendid,** J. B. Alberdi 189, Neuquén.
34) **R. General Güemes,** Dean Funes 28, Salta: 10.00–03.00.
34a) **La Rioja,** (Belongs to R. Belgrano netw.).
35) **R. General San Martin,** Alsina 247, Bahia Blanca.
36) **R. Cerealista,** Balcarce 840, Rosario.
37) **R. del Norte,** Libertad 251, Ci. Sgo. del Estero (R. Belgrano netw.).
38) **R. Antartida,** Arenales 1925, B. Aires: 11.00–04.00.
39) **R. Splendid,** Mendoza 225, Tucumán.
40) **R. Splendid,** Mariano I, Llosa 231, Goya.
41) **R. Azul,** 25 de Mayo 624, Azul.
42) **R. de Cuyo,** Lavalle 283, Mendoza.
43) **R. Chaco,** Ave. 9. de Julio s/n, Resistencia.
44) **R. del Sur,** Ca. Lamadrid 116, Bahia Blanca. – **L.P.:** Dir. Gen.: H. Long. Dir. Tec.: E. Stabach. Dir. For. Rel.: H. Long. – **D. Prgr.:** 10.00–04.00. – V. by QSL-card.
45) **R. San Luis,** Rivadavia 563, San Luis. – **L.P.:** Dir. Gen.: O. di Gennaro. Dir. Tec.: A. J. Izurieta. – **D. PRGR.:** 11.00–03.00. –
46) **R. Santa Fé,** Rivadavia 2849, Santa Fé.
47) **R. Splendid,** O. Leguizamón 269, Ci. del Uruguay.
48) **R. Necochea,** Ca. 62–322, Necochea.
49) **R. General Urquiza,** Rivadavia 64, Paraná.
50) **R. La Rioja,** Soldado Perazzone 69, La Rioja.
51) **R. Provincia de Corrientes,** Ayacucho 2482, Corrientes.
52) **R. Atlantica,** Rioja 1650, Mar del Plata.
53) **R. del Pueblo,** Santa Fé 2043, B. Aires.
54) **R. General Madariaga,** Av. Ldor Gral S. Martin, P. de los Libres (Belongs to R. Belgrano netw.).
55) **R. Splendid,** J. J. de Urquiza 585, Pcia. R. S. Peña.

★ BOLIVIA ★

L.T.: GMT÷4 h. – **Pr. L.:** Spanish. – **Po.:** 3.700.000. – **Rcvrs.:** 250.000. – **E.C.:** 110/220 V, A.C., 50 c/s.
St.: 2) Go.; 6) 16) 24) Cultural; 10) 13) 14) Rel.; 20) Educational. Other st's. comm.

DIREC. GEN. DE RADIOCOMUNICACIONES, Dept. Radiodif., La Paz.

STATIONS: Short Waves:

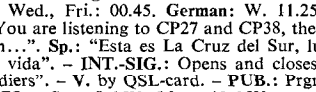
	Call	kc/s	m	kW	m.w.	Name & H. of tr.
1)	CP39	4855	61.79	0.25		R. Cobija: 23.00–02.00
2)	CP5	5975	50.21	10	1020	R. Illimani: 11.00–04.00
3)	CP18	6070	49.42	0.25		R. El Condor: 11.00–18.00, 22.00–04.00
4)	CP15	6125	48.98	0.35	900	R. El Condor: 11.00–04.00
5)	CP30	6135	48.90	0.5		R. Grigota: see below
6)	CP12	6150	48.78	0.25	1420	R. Loyola: see below
7)	CP40	6160	48.70	1	680	Emis. L.A.B.: 10.00–24.00
8)	CP9	6185	48.50	0.45	930	R. Amauta: 11.00–13.00, 23.00–04.00
9)	CP23	6195	48.43	0.5		R. Guadalquirie: 12.00–02.00
2)	CP6	9500	31.58	0.1	1020	R. Illimani: 11.00–04.00
10)	CP38	9505	31.56	1	730	La Cruz del Sur: see below
11)	CP22	9605	31.23	1		R. Universidad: see below
12)	CP21	9715	30.88	0.5		R. La Plata: see below

Medium Waves: Call: CP–––. °=short wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
2) 2	°550	5	20) 66	930	0.25	31) 29	1350	0.3
13) 63	620	1	21) 25	930	0.25	32) 53	1350	0.07
14) 68	620	1	22) 64	930	0.25	33) 28	1350	0.25
15) 56	620	0.15	2) 4	°1020	25	34) 3	1390	0.25
16) 55	680	0.25	23) 45	1090	0.03	35) 16	1390	0.1
17) 34	680	0.25	24) 69	1090	0.25	36) 62	1390	0.1
7)	°680	0.1	25) 61	1090	0.1	37) 62	1420	0.25
10) 27	°730	1	26) 19	1145	0.3	6) 51	°1420	0.2
18) 52	730	0.07	27) 14	1250	0.25	38) 36	1420	0.08
19) 35	810	0.25	28) 57	1250	0.15	39) 8	1470	0.25
4) 20	°900	0.25	29) 71	1250	0.15	40) 67	1550	0.5
8) 11	°930	0.15	30) 65	1250	0.25	41) 72	1550	0.25

Short Waves:

1) Centro de Acción Pandina, Cobija (Dept. Pando).
2) Emisora del Estado, Av. E. Camacho Edificio Krsul, **La Paz.** – V. by QSL-card.
3) La Plata 1139, Oruro. – 4) Av. E. Camacho 41, La Paz.
5) Prefectura del Departamento, Santa Cruz. – **D. Prgr.:** 12.00–24.00.
6) Casilla 155, Sucre. – **L.P.:** Dir. Gen.: R. Aguilo. Dir. Prgr.: R. Torres. Dir. Tec.: J. Lora. – **D. PRGR.:** CP51: 12.30–13.30, 17.00–18.00; CP12: 11.00–12.30, 14.00–17.00, 20.00–22.00, 00.00–02.00. – **ANN.:** CP12 y CP51 Radioemisoras Loyola, Voluntad Catolica de Bolivia, frequencia de Cristo en America. – V. by letter.
7) Lloyd Aereo Bolivano, Hotel Bolivar, Cochabamba.
8) Comercio 386, La Paz. – **D. PRGR.:** CP11: 10.30–14.00, 20.00–04.00.
9) Prefectura del Departamento, Tarija.
10) Nicaragua 405, La Paz. – **L.P.:** Dir. Gen.: R. Bonney Dir. Prgr.: Mary Beard. Dir. Tec.: J. Mikaelsen. – **D. PRGR.:** (W. exc. Tues.): 11.00–13.00, 14.30–18.00, 22.00–04.30. Sun. 12.00–00.30. **Nat. Music:** Thurs. & Sat. 14.45. **English:** Thurs. 04.00–04.30. **English by Radio (BBC):** Mo., Wed., Fri.: 00.45. **German:** W. 11.25, Sun. 00.15. – **ANN.: E.:** "You are listening to CP27 and CP38, the Southern Cross Radio Station…". **Sp.:** "Esta es La Cruz del Sur, luz que senala el camino de la vida". – **INT.-SIG.:** Opens and closes with "Onward Christian Soldiers". – V. by QSL-card. – **PUB.:** Prgr. sched. free on request. – **F.PL.:** S.w. 5 kW, M.w. 10 kW.
FM: 10) 103.0 mc/s 0.1 kW.



11) Rectorado Universidad "Tomas Frias", Potosi. – **D. PRGR.:** 12.30–14.00, 15.00–17.30, 20.00–02.00.
12) 25 de Mayo 41, Sucre. – **L.P.:** Dir.: G. Donoso D. – **D. PRGR** 12.30–14.00, 15.00–22.30.

Medium Waves:

13) **R. San Gabriel,** Fernando Guachalla 35, La Paz. – **D. PRGR.:** 10.45–16.00, 18.30–20.00, 22.00–02.00.
14) **R. San Rafael,** Calacala, Cochabamba. – **D. PRGR.:** 16.00–18.30, 20.00–22.00, 02.00–04.00.
15) **La Voz Minerva,** Comando Movimiento Nacionalista Revolucionario, Telemayo (Dep. Potosi).
16) **R. Universitaria,** Universidad Técnica 6, de Octubre y Cochabamba, Oruro. – **D. PRGR.:** 11.00–12.00, 16.00–20.00, 22.00–02.00.
17) **R. Splendid,** Pasaje Bella Vista 212, La Paz. – **D.PRGR.:** 12.15–13.00, 14.30–18.00, 22.00–02.30.
18) **R. Potosi,** Sucre 79, Potosi. – **L.P.:** Dir.: E. Rodriquez S. – **D. PRGR.:** 13.00–15.00, 16.00–20.00, 00.30–03.00.
19) **R. Altiplano,** Av. E. Camacho 62, La Paz. – **L.P.:** Dir.: M. Carrasco V. – **D. PRGR.:** 11.00–05.000.
20) **R. Roosevelt,** "Academias Roosevelt", Cochabamba. – **L.P.:** Dir. W. Tapia M. – **D. PRGR.:** 10.00–14.00, 16.00–18.00, 21.00–02.00.
21) **R. Libertad,** Calvo 10, Sucre. – **L.P.:** Dir.: J. Taboada M. – **D. PRGR.:** 11.30–13.30, 18.00–20.00, 00.00–02.00.
22) **R. Chorolque,** Conjunto Teatral "Nuevos Horizontes", Tupiza (Dept. Potosi). – **D. PRGR.:** 16.00–18.00, 22.00–03.00.

23) **R. Cultura**, Tumusla Av. 14 de Enero .Cochabamba. – **L.P.**: Dir.: J. Maldonado M. – **D. PRGR.**: 11.30–13.00, 15.00–18.00, 21.00–02.30.
24) **R. Universidad**, Rectorado Universidad Mayor de "San Andrés", Av. Eleodoro Villazón, La Paz.
25) **R. Uyuni, "La Voz del Ferroviario"**, Litoral 338, Uyuni (Dept. Potosi). – **D. PRGR.**: 11.00–13.00, 15.00–18.00, 22.00–01.00.
26) **R. Aspiazu**, Indaburo 434, La Paz. – **L.P.**: Dir.: H. A. Aspiazu. – **D. PRGR.**: 11.30–19.00, 21.00–03.30.
27) **Emisoras Unidas**, Av. E. Camacho 318, La Paz. – **D. PRGR.**: 11.30–18.00, 20.30–03.00.
28) **R. 9 de Abril**, Comando Movimiento Nacionalista Revolucionario, Pulacayo (Dept. Potosi).
29) **R. Cordillera**, Santa Cruz. – **D. PRGR.**: 14.00–18.00, 22.00–02.00.
30) **R. Oruro**. – **D. PRGR.**: 14.00–19.00, 21.00–03.00.
31) **R. Indoamerica**, Hoyos 42, Potosi. – **L.P.**: Dir.: M. A. Careaga. – **D. PRGR.**: 12.00–14.00, 15.30–18.00, 21.00–03.00.
32) **R. Cochabamba**, Nataniel Aguirre 341, Cochabamba. – **D. PRGR.**: 11.00–14.00, 16.00–18.00, 23.00–03.00.
33) **R. Bolivia**, Capitan Castrillo 176, La Paz. – **D. PRGR.**: 12.00–14.00, 16.00–18.00, 23.00–03.00.
34) **R. Los Andes**, 15 de Abril 828, Tarija. – **L.P.**: Dir. E. Monje. – **D. PRGR.**: 16.00–18.30, 00.30–02.30.
35) **La Voz del Minero**, Corp. Minera de Bolivia, Llallagua.
36) **R. Excelsior**, Sucre 657, La Paz. – **L.P.**: Dir.: C. Fernandez I. – **D. PRGR.**: 11.30–18.00, 20.00–03.00.
37) **R. Fides**, Colegio San Calixto, Jenaro Sanjinés, La Paz. – **D. PRGR.**: 11.00–13.00, 16.00–18.00, 22.00–03.00.
38) **R. Mercurio**, Caro 560, Oruro. – **L.P.**: Dir.: J. M. Irahola. – **D. PRGR.**: 11.00–15.00, 16.00–04.00.
39) **R. America**, Junin 660, La Paz. – **L.P.**: Dir.: L. Salcedo P. – **D. PRGR.**: 11.00–14.00, 16.00–18.00, 22.00–04.00.
40) **R. Pio XII**, Siglo XX (Dept. Potosi). – **L.P.**: Padres Oblatos. – **D. PRGR.**: 10.00–11.00, 15.30–17.00, 21.00–02.30.
41) **R. Luis de Fuentes**, Tarija. – **L.P.**: Dir.: A. E. Villena. – **D. PRGR.**: 14.00–16.00, 22.00–02.00.

★ BRAZIL ★

L.T.: Eastern (Coastal): GMT÷3 h. Western: GMT÷4 h. – **Pr.L.**: Portuguese. – **Po.**: 59.846.000. – **Revrs.**: 3.500.000. – **E.C.**: 220 V., A.C., 50 c/s (Recife); 120 V., A.C., 50 c/s (Rio de Janeiro + Sao Paulo).

STATIONS: Short Waves:

	Call	kc/s	m	kW	m.w.	Name & h. of tr.
1)	ZYK30	2330	128.8	0.25	1560	R. Cultura do Nordeste: 09.00–04.00
2)	ZYV30	2340	128.2	0.5	1470	R.Dif. Brasileira: 12.00–02.00
3)		2350	127.7	1	1240	R.Dif. do Amazonas
4)		2370	126.6	1	680	R.Dif. do Maranhão
5)		2390	125.5	0.5		R. Cultura de Monte Alto
6)		2400	125.0	0.5	1600	R.Dif. de Amparo
4)		2420	124.0	0.25	680	R.Dif. do Maranhão
7)	PRI8	2450	122.5	0.5	1330	R. Cultura de Aracatuba: 10.00–02.30
8)	ZYR99	2460	122.0	0.5	1250	R. Cacique de Sorocaba: 09.00–03.00
9)	ZYR62	3255	92.17	0.5	1090	R. Cl. de Marilia: 10.30–02.00
10)	ZYR92	3265	91.87	4	780	R. Ribeirão Preto: 21.00–05.00
11)	ZYK21	3265	91.87	1	890	R. Tamandaré: 09.00–03.00
12)	ZYR31	3275	91.60	1	1210	Bauru R. Clube: 09.00–03.00
13)	ZYR44	3285	91.32	0.1	1600	R. Aparecida: 10.00–01.00
14)		3325	90.23	0.1	1440	R.Dif. Hora Certa
15)	ZYJ21	3325	90.23	1	1350	R. Borborema: 09.00–03.00
16)	ZYR59	3335	89.95	0.5		R. Pres. Prudente: 10.00–02.00
17)		3335	89.95	1/10	1130	R. Marajoara irregular
18)	ZYS45	3365	89.15	0.5	690	R.Dif. do Parana
19)	ZYK78	3375	88.88	1	1030	R. Olinda de Pernambuco: 08.45–03.00
20)	ZYA41	3385	88.63	1	550	R. Eldorado: 10.00–02.00
4)	ZYF23	4735	63.35	2	680	R.Dif. do Maranhão: 09.00–04.00
21)	ZYY3	4755	63.09	1	1270	R. Brazil: 09.00–04.00
22)	ZYR81	4775	62.84	5		R. Progresso de Sao Paulo
23)	ZYH29	4775	62.84	2	690	R. Dragao do Mar: 08.00–04.30
24)	ZYY20	4785	62.70	1		R.Dif. de Guaporé: 12.00–02.30
25)	ZYM8	4785	62.70	0.5	1090	R. Ribamar: 09.00–02.00
26)		4795	62.57	1	1080	R. Cultura de Cambuquira
27)		4795	62.57	2	1110	R. Tabajaras
3)	ZYS8	4805	62.43	5	1240	R.Dif. do Amazonas: 10.00–17.00, 19.00–03.05
28)	ZYP33	4815	62.31	1	1480	Petropolis R.Dif.: 10.30–03.00
29)	ZYH21	4815	62.31	1	1300	R. Iracema de Fortaleza: 08.00–04.00
30)	ZYV56	4825	62.18	0.5	1210	R. Cl. de Varginha: 11.00–01.00
31)	ZYE7	4825	62.18	0.5	1470	E. Educadora de Parnaiba: 14.00–16.00, 21.30–01.00
32)	ZYV37	4835	62.05	0.5	1390	R. Soc. Triangúlo Mineiro: 10.00–02.30
33)		4835	62.05	1		R.Dif. Roraima
34)	ZYY8	4845	61.92	1	1370	R.Dif. de Teresina: 09.00–01.00
35)	ZYR61	4855	61.79	1	720	R.Dif. de Taubaté: 10.00–03.00
36)	PRG5	4865	61.66	2	1450	R.Cl. do Parã: 21.00–03.00
37)	ZYZ30	4875	61.54	1	940	R. Jornal do Brasil: 10.00–03.30
38)		4885	61.41	1	1460	R.Dif. Acreana
39)	ZYV50	4885	61.41	5	1350	R. Cultura de Pocos de Caldas: 09.00–03.00
40)	PRF6	4895	61.29	2.5	1480	R. Baré: 11.00–17.00, 20.00–04.00
41)	ZYN22	4895	61.29	1	1440	R. Cultura da Bahia
42)	ZYZ21	4905	61.16	5	590	R. Relógio Federal: 24 h.
43)	ZYR60	4915	61.04	1	1370	R. Cultura de Araraquara: 09.30–02.00
44)		4915	61.04	2		Governo do Ter. Federal do Amapa
45)	ZYA36	4925	60.90	1	1090	R. Industrial de Juiz de Fora
46)	ZYI21	4935	60.80	1	1270	R. Poti: 09.00–03.00
47)		4945	60.67	0.25	1460	R.Dif. Mearim
48)	ZYO22	4945	60.67	1	1370	R. Capixaba
49)	PRF7	4955	60.54	2	1110	R. Cultura de Campos: 09.00–02.30
50)	ZYX2	4965	60.42	5	1270	R. Brasil Central: 09.00–03.00
51)	ZYY9	4975	60.30	2.5	1490	R. Timbira: 10.00–02.00
52)	ZYP20	4975	60.30	1	680	R. Mapinquira
53)	ZYZ5	4985	60.19	0.5	1160	A Voz do Oeste: 09.30–01.30
54)		5015	59.82	5	1360	R. Guanabara
55)		5025	59.70	1	1330	R.Dif. de Aquidauana
56)	ZYW22	5035	59.57	1	1370	R. Anhanguera: 09.00–04.00
57)	ZYP23	5045	59.46	0.5	780	R. Quitandinha: 08.00–04.00
58)		5045	59.46	10	1320	R. Rio de Janeiro
59)	ZYO23	5055	59.35	2	730	R. Vitoria: 10.00–02.00
60)		5055	59.35	1	1300	R. Cultura de Cuiaba
61)	ZYR226	5955	50.38	7.5	890	R. Gazeta: 10.30–04.00
62)	ZYU60	5965	50.28	7.5	720	R. Guaiba: 09.00–21.00
63)	ZYJ7	5975	50.21	10	1420	R. Guaruja: 11.00–18.00, 20.00–02.00
64)	PRL5	5990	50.08	10	800	R.Dif. Educativa: 10.00–04.00
65)	PRK5	6000	50.00	5	880	R. Inconfidencia: 09.00–04.00
66)	PRA8	6015	49.88	5	720	R. Cl. de Pernambuco: 09.00–03.00
67)	ZYR63	6025	49.79	7.5	1200	R. Emis. Piratininga: 09.00–04.00
68)	ZYZ26	6035	49.71	7.5	1180	R. Globo: 09.00–03.00
69)	ZYZ33	6045	49.63	7.5	1440	R. Cl. Paranaense: 09.00–03.00
70)	PRB21	6055	49.55	7.5	1000	R. Record: 11.00–03.00
71)	ZYZ31	6065	49.46	7.5		R. Rural Brasileira: 10.00–12.00, 20.00–22.00
72)	ZYK2	6085	49.30	64	780	R. Jornal do Commércio (inactive)
73)	ZYB7	6095	49.22	25	960	R.Dif. de Sao Paulo: 10.00–03.05
74)	ZYN6	6105	49.14	5	1200	Ceará R. Clube: 09.00–21.00
75)	ZYC7	6115	49.06	100	1280	R. Tupi: 08.00–03.35
76)	PRG9	6125	48.98	10	1100	R. Nac. de Sao Paulo (inactive)
77)	PRC21	6135	48.90	7.5	680	R. Soc. Gaucha: 09.30–04.00
78)	PRL9	6147	48.80	50	980	R. Nac. Rio de Janeiro: 08.30–04.10
79)	ZYR58	6165	48.66	7.5	1300	R. Cultura: 10.00–02.30
80)	ZYR78	6185	48.50	10	840	R. Bandeirantes: 08.30–03.00
81)	PRD21	6195	48.43	7.5	1030	Emis. Continental: 09.00–05.00
81a)	PSL	7935	37.81	20		Agencia Nacional: W. 22.30–23.00
70)	PRB22	9505	31.56	7.5	1000	R. Record: 22.00–02.30
82)	ZYS43	9545	31.43	7.5	1210	R. Emiss. Paranaense
72)	ZYK3	9565	31.37	64	780	R. Jornal do Commércio: 09.55–16.05, 18.00–02.25
83)	ZYZ27	9575	31.33	10	1220	R. Mayrink Veiga: 10.00–03.00
84)	ZYR56	9585	31 30	1	670	R. Excelsior: 09.00–06.00
41)	ZYN29	9595	31.27	1	1440	R. Cultura da Bahia: 08.00–04.00
75)	ZYC8	9610	31.22	10	1280	R. Tupi: 08.00–03.35
85)	ZYR96	9620	31.19	7.5	540	R. 9 de Julho: 09.00–03.00
13)	ZYR83	9635	31.14	7.5	1600	R. Aparecida: 10.00–01.00
39)	ZYV40	9645	31.10	7.5	1350	R. Cultura de Pocos de Caldas: 09.00–03.00
86)		9665	31.04	20		R. Rio
87)	ZYT29	9675	31.01	7.5	1010	R. Diario da Manha: 09.00–03.00
61)	ZYR227	9685	30.98	7.5	890	R. Gazeta: 10.30–04.00
40)		9695	30.94	7.5	1480	R. Baré: 09.30–02.00
88)	ZYS24	9705	30.91	10	1130	Fundacão R. Maua: 08.00–03.00

	Call	kc/s	m	kW	m.w.	Name & h of tr.
78)	PRL7	9720	30.86	50	980	R. Nac. Rio de Janeiro: 08.30–04.10
89)	ZYU59	9730	30.83	7.5	600	R. Soc. Farroupilha: 09.00–03.00
50)	ZYW23	9735	30.82	7.5	1270	R. Brasil Central
79)	ZYR57	9745	30.79	7.5	1300	R. Cultura: 10.00–02.30
64)	PRL4	9770	30.71	10	800	R. Dif. Educativa: 10.00–04.00
81a)		10220	29.35	20		Agencia Nacional: W. 22.30–23.00
78)		11720	25.60	10	980	R. Nac. Rio de Janeiro
90)		11720	25.60	10		R. Nac. Brasilia (irregular)
91)	ZYG3	11735	25.56	7.5	1320	R. Cl. de Goiania: 10.00–03.00
67)	ZYR65	11745	25.54	7.5	1200	R. Emis. Piratininga: 09.00–04.00
73)	ZYB8	11765	25.50	25	960	R. Dif. de Sao Paulo: 09.00–03.00
83)	ZYZ28	11775	25.48	10	1220	R. Mayrink Veiga: 10.00–03.00
62)	ZYU61	11785	25.46	7.5	720	R. Guaiba: 21.00–04.00
68)		11805	25.41	10	1180	R. Globo: 09.00–03.00
50)	ZYW24	11815	25.39	7.5	1270	R. Brasil Central: 09.00–03.00
72)	ZYK32	11825	25.37	64	780	R. Jornal do Commércio: 20.55–02.25
66)	PRA8	11865	25.28	7.5	720	R. Cl. de Pernambuco: 09.00–03.00
92)	ZYN32	11875	25.26	10	740	R. Soc. da Bahia: 17.00–04.00
88)		11885	25.24	10	1130	Fundacão R. Maua
77)		11915	25.18		680	R. Soc. Gaucha: 09.30–04.00
80)	ZYR77	11925	25.16	10	840	R. Bandeirantes: 08.30–03.00
69)	ZYS35	11935	25.14	7.5	1440	R. Cl. Paranaense: 10.00–03.00
64)	PRL5	11950	25.10	7.5	800	R. Dif. Educativa: 10.00–04.00
70)	PRB24	11965	25.07	50	1000	R. Record: 22.00–02.30
81a)	PSF	14690	20.45	20		Agencia Nacional: W. 22.30–23.00
71)	ZYZ32	15105	19.86	7.5		R. Rural Brasileira: 10.00–12.00, 20.00–22.00
73)		15115	19.85	7.5	560	R. Soc. Guairaca
92)	ZYN31	15125	19.83	10	740	R. Soc. da Bahia: 09.00–17.00
70)	PRB23	15135	19.82	7.5	1000	R. Record: 11.00–03.00
72)	ZYK33	15145	19.81	64	780	R. Jornal do Commércio: 09.55–18.00
73)	ZYB9	15155	19.80	25	960	R. Dif. de Sao Paulo: 12.00–20.30
74)	ZYN7	15165	19.78	5	1200	Ceará R. Clube: 21.00–04.00
93)		15175	19.77	7.5	1240	Emis. Riograndense
65)	PRK9	15190	19.75	5	880	R. Inconfidencia: 09.00–04.00
94)						See 81a.
51)		15215	19.71	2.5	1490	R. Timbira 10.00–02.00.
41)		15225	19.70	1	1440	R. Cultura da Bahia
91)		15225	19.70	7.5	1320	R. Cl. de Goiania
17)		15245	19.68	1/10	1130	R. Marajoara
78)		15295	19.61	10	980	R. Nac. Rio de Janeiro
61)	ZYR228	15325	19.58	1	890	R. Gazeta: 10.30–04.00
75)	ZYC9	15370	19.52	10	1280	R. Tupi: 08.00–03.35
95)	ZYR206	15415	19.46	1	730	R. Cl. de Ribeirão Preto: 22.00–03.30
86)		15445	19.42	50		R. Rio
85)	ZYR96	17705	16.94	7.5	540	R. 9 de Julho: 10.00–03.30
96)		17725	16.93	7.5		R. Universitar
79)		17815	16.84	10	1300	R. Cultura
78)	PRL9	17850	16.81	10	980	R. Nac. Rio de Janeiro: 08.30–04.10
64)	PRL2	17875	16.79	7.5	800	R. Dif. Educativa: 10.00–04.00

Medium Waves: °) short wave. *) also FM.

	Call	kc/s	kW
97)	ZYZ47	430	1/0.25
85)	ZYR98	°540*	
20)	ZUZ22	°550*	50
98)	ZYN4	560	1/0.25
99)	ZYN5	560*	10/5
100)	PRG5	580	1/0.5
101)	ZYN3	580	1/0.5
102)	ZYD4	580*	1/0.5
42)	ZYZ20	°590*	5/1
103)	ZYS50	590	1/0.5
89)	PRH9	°600*	50
104)	PRH7	620*	10/5
105)		620	10
106)		630	1
107)	ZYV44	630	1/0.25
108)	ZYA3	630	1
109)	PRJ6	630	1
110)		640	1/0.25
111)	PRG6	640	1/0.5
112)	ZYI21	640	1
113)	PRF9	640	10/5
84)	ZYR56	°670*	10
4)		°680	5
114)	ZYB7	680	5
72)		°680	1/0.5
52)	ZYP20	°680	5
77)	PRC2	°680*	10/5
115)	ZYR55	690	1/0.1
23)		°690	10
116)	PRC7	690*	25/10
18)	ZYS44	°690	0.25
117)	ZYN3	690	1/0.5
20)		°700*	50
35)	ZYA8	°720*	1
66)	PRA8	°720	0.25
62)	ZYU58	°720	10
96)	PRA7	°730*	1/0.5
59)	ZYO21	°730	1
118)		730	1/0.25
119)	ZYO9	730	1/0.25
92)	PRA4	°740*	50
72)	PRL6	°780	20
57)	ZYR30	°780*	0.25
10)	ZYR79	°780	0.25/0.1
64)	PRA2	°800*	25
120)	ZYA4	820	1/0.25
121)		820	1
80)	PRH9	°840*	10/5
122)	ZYD8	840	10/5
123)	PRA3	860*	50
65)	PRI3	°880*	50
124)	ZYU33	880	10
61)	PRA6	°890*	5
11)	ZYK20	°890*	20
125)	ZYI23	900	10
126)	PRB7	900*	10
127)	PRJ3	930	5
128)	ZYT3	930	5/0.25
129)	ZYM20	930	5
37)	PRF4	°940	50
73)	PRF5	°960*	10/5
130)	ZYO4	960	10
131)	ZYF5	960	1/0.25
132)		970	1
78)	PRE8	°980*	50
90)		°980	10/1
70)	PRE9	°1000*	50
41)		°1010	10/5
133)	PRB3	1010	2/0.5
87)	ZYT26	°1010	0.25
134)		1020	20
135)	PRB8	1030	1/0.25
19)	ZYK7	°1030*	5
81)	PRD8	°1030	10/5
136)		1040	50
137)	PRD2	1060	10
138)	PRB7	1080	1/0.5
139)	ZYN24	1080	1/0.5
140)		1080*	1/0.25
141)	ZYV52	1080	0.25
142)	ZYB4	1080	1./05
143)	ZYX7	1080	1/0.25
72)	ZYK22	°1080	1/0.5
144)	ZYE4	1080	1/0.5
145)	ZYU67	1080*	2/0.5
9)	PRI2	°1090	0.3/5
45)	ZUT9	°1090	1/0.5
146)		1090*	1/0.25
76)	PRG9	°1100	50
147)	ZYU50	1100*	1/0.25
27)	PRI4	°1110*	10
49)	PRF7	°1110*	5
148)	ZYT25	1110	1/0.25
149)		1120	20
88)	PRB8	°1130	10/5
17)	ZYE20	°1130*	10
150)		1130	1
151)		1130	1/0.25
152)	ZYT34	1130	1/0.25
153)	ZYH7	1160	1/0.25
154)	PRI9	1160	10
53)	PRH3	°1160	1
155)	PRF6	1160	5
156)	ZYA5	1160	1
157)	PRC9	1170*	5
158)	ZYI20	1170	1
159)		1170	1/0.25
160)	ZYU38	1170	1/0.25
68)	PRE3	°1180*	50
67)	PRB6	°1200	5
74)	PRE9	°1200	10
12)	PRG8	°1210	1/0.5
161)	ZYL9	1210	1/0.5
40)		°1210	1
30)	ZYB2	°1210	0.5
82)	ZYZ9	°1210	0.5
72)	ZYK23	°1210	1/0.5
83)	PRA9	°1220*	50
153)	ZYR84	1240	1/0.25
3)	ZYB21	°1240	5
162)	ZYC4	1240	1/0.5
163)	ZYP4	1240	1/0.5
94)		°1240	1/0.5
8)	ZYR43	°1250	0.1
164)	PRJ2	1250	1/0.5
165)	PRA5	1260*	10/5
166)		1260	10
50)	ZYX9	°1270*	10
21)	ZYR39	°1270*	0.25
167)	ZYS23	1270	1/0.25
46)	ZYB5	°1270	10
75)	PRG3	°1280*	50
79)	PRE4	°1300*	10/5
29)	ZYR7	°1300*	10
60)		°1300	1
168)		1320*	10/5
169)	ZYR201	1320	1
91)	ZYG3	°1320	2
58)		°1320	10
170)		1320	1
171)	PRH4	1320	1/0.5
172)	ZYT31	1320	1/0.25
7)	PRI8	°1330	1/0.5
55)	ZYX20	°1330	0.25
173)	ZYV33	1330	1/0.5
174)	ZY15	1330	1/0.5
72)		°1330	1/0.5
175)	PRC4	1330	1/0.5
176)	ZYR49	1340	1
74)		°1340	1
177)	PRH6	1340*	25/5
178)	ZYX2	1340	1
179)		1340	1/0.25
39)	PRH5	°1350	5
15)	ZYO7	°1350	1
54)		°1360*	5
180)		1360	10
43)	PRD4	°1370*	1/0.5
48)	ZYO22	°1370	1
56)	ZYW21	°1370	1
34)	ZYQ3	°1370	1
32)	PRE5	°1390	1/0.25
181)	ZYS46	1390	1/0.25
72)	ZYK24	°1390	1
182)	ZYJ2	1390	1/0.5
183)	PRD5	1400	10/5
184)	PRE7	1410*	25/10
126)		1410	10
185)	ZYI4	1420	1/0.25
186)		1420	1/0.1
63)	ZYJ7	°1420*	5/2.5
187)	PRE2	1430	10
14)	ZYR207	°1440*	0.1
41)	ZYN20	°1440*	10/5
69)	PRB2	°1440*	20/10
188)		1440	1
189)	PRB4	1450	5/2
36)	PRG5	°1450	10
190)	ZYJ20	1450	1
191)	ZYP36	1450	5/0.25
38)	ZYD9	°1460	0.25
29)	ZYH22	°1460	1
47)	ZYF20	°1460	0.25
192)	ZYE3	1470	5/1
193)	ZYD2	1470	1/0.5
2)	PRC6	°1470*	1/0.5
194)	ZYZ6	1470	1
31)	PRJ4	°1470	0.5
195)	ZYN3	1470	1/0.5
40)	ZYS20	°1480*	10
196)	ZYH	1480	1
28)	PRD3	°1480	5
51)	PRJ9	°1490	2.5
197)	ZYA2	1490	2
81)		°1490	10/0.5
198)	ZYS9	1540	1/0.1
199)		1540	25
1)		°1560	
200)	ZYU23	1570*	1/0.1
201)	ZYO3	1580	1/0.5
6)	ZYJ4	°1600	0.1
13)		°1600	0.1

+ 432 low power less 1 kW – **FM:** 89 st's.

States abbreviations: DF=Distrito Federal. ER=Estado do Rio. ES=Espirito Santo. MG=Minas Gerais. Pe=Pernambuco. RGN=Rio Grande do Norte. RGS=Rio Grande do Sul. SC=Santa Catarina. SP=São Paulo.

Brazil

Short Waves:
1) Rua do Expedicionario, 2° andar, Edif. Sao José, Caruaru, Pernambuco. – V. by letter.
2) C. P. 173, Uberlandia, M. G. – V. by letter.
3) Rua Joaquim Sarmento 100, Manaus, Amazonas.
4) São Luiz, Maranhão. – 5) Jaboticabal, SP. – 6) Amparo, SP.
7) Rua Osvaldo Cruz 67, Aracatuba, SP. 1330 kc/s: 11.00–02.30.
8) Rua Miranda Azevedo 311, Sorocaba, SP.
9) Rua Paes Leme 20, Marilia, SP. – 10) C. P. 814, Ribeirão Preto, SP.
11) Av. Cruz Cabuga 394, Santo Amaro, Recife, Pe.
12) Praca dos Expedicionários, Bauru, SP. – V. by letter.
13) Praca NS, Aparecida 315, Aparecida. – **D.PRGR.: N.:** 17.55. **English:** Sat. 24.00. – V. by letter. R.p. – 14) Guarulhos, SP.
15) C. P. 160, Campina Grande, Paraiba. – V. by QSL-card.
16) C. P. 5, Pres. Prudente, S.P. – Dir. Gen.: A. Campos.
17) C. P. 491, Belém, Pará. – 18) Londrina, Paraná.
19) C. P. 1313, Recife, Pe. – **D.PRGR.:** 1030 kc/s: 08.45–06.00.
20) Av. Pres. Vargas 417, Rio de Janeiro. – **FM:** 91.7 mc/s.
21) C. P. 625, Campinas, São Paulo. – **L.P.:** Pres.: A. Pedroso. Dir. Gen.: S. Pedroso. – **D.PRGR.: Portuguese:** 09.00–11.00, 12.00–04.00. **German:** 11.00–12.00. – **ANN.:** "ZYY3-Rádio Brasil de Campinas – ZYR39-Rádio Brasil de Valenhos emissoras brasileiras da Organização Irmãos Pedroso". – V. by letter.
22) Av. Liberdade 1034, Sao Paulo.
23) Rua Pereira s/n, Fortaleza, Ceará. – **ANN.:** "A Voz mais potente do Nordeste.
24) Av. Ferquar, Guapore, Porto Velho, Rondonia. – V. by letter or QSL-card.
25) Rua do Apium 118–130, Sao Luiz, Maranhao. – 26) Cambuquira,
27) Rua Rodriguez de Aquino s/n, Joao Pessoa, Paraiba.
28) Praca D. Pedro II°, 17, Petropolis. **Cable:** "Difusora". – **L.P.:** Dir. Gen.: W. C. Malta. Dir. Tec.: I. Nicolay. – **D.PRGR.: N.:** 16.00, 23.25, 01.05, 02.45 (Reporter Esso). **Nat. Music:** 10.30, 17.00. – **Wrp.:** 13.00, 15.00, 17.00, 19.00. – V. by letter.
29) Rua 24 de Maio 554, Fortaleza, Ceará.
30) C. P. 102, Varginha, MG. – V. by letter.
31) C. P. 31, Parnaiba, Piaui. – V. by letter.
32) Rua Major Eustaquio 13, Uberaba, MG. – 33) Boa Vista, Rio Branco.
34) Aerolino de Abreu 1157, Teresina, Piaui.
35) Rua Visconde do Rio Branco 247, Taubaté, SP. – **ANN.:** "R. dif. Taubaté, emisoras ZYA8, ZYR61 m.w. e curtas. Taubaté, Estado de São Paulo. – V. by QSL-card.
36) Av. Presidente Vargas, Belém, Para. – **D. PRGR.:** 1450 kc/s: 09.00–03.00. – V. by letter or QSL-card.
37) Av. Rio Branco 110, Rio de Janeiro. – 38) Rio Branco, Acre.
39) C. P. 143, Pocos de Caldas, MG. – V. by letter or QSL-card.
40) Av. Eduardo Ribeiro 566, Manaus, Amazonas.
41) Av. 7 de Setembro 311, Salvador, Bahia. – V. by letter or QSL-card.
42) Av. Presidente Vargas 417-A, Rio de Janeiro, DF.
43) C.P. 22, Araraquara. – 44) Amapa, Amapa.
45) Rua Alfeld, Juiz de Fora, Minas Gerais. – **D. PRGR.:** 09.00–12.00, 13.00–16.00, 18.00–03.00.
46) C.P. 145, Natal. **Cable:** "Radiopoti". – 47) Caxias, Maranhão.
48) Vitória, Espirito Santo.
49) C.P. 79, Campos, ER. – **L.P.:** Dir. Gen.: M. F. Sampaio. Dir. Tec.: W. Lobo. – **D. PRGR.: N.:** 10.30, 13.00, 14.30, 16.00, 18.00, 22.00, 01.30. – V. by letter.
50) C.P. 330, Goiania, Goiás. – V. by QSL-card or letter.
51) Ed. da Imprensa Oficial, São Luiz, Maranhão.
52) São Goncalo, ER. – 53) Praca Ipiranga 172, Cuiba, Mato Grosso. **Japanese:** 23.30.
54) Av. 13 de Maio, Rio de Janeiro. – **D. PRGR.:** 10.00–03.00.
55) Aquidauana, Mato Grosso. 56) Av. Anhanguera 92, Goania.
57) C.P. 5992, Petropolis, Rio de Janeiro. – **D. PRGR.: German:** Sun.: 15.00-17.15, 22.00-23.15 (rel. R. Copacabana). 58) Rio de Janeiro.
59) Av. Florentino Avides 492, Vitoria. – 60) Cuiaba, Mato Grosso.
61) R. da Conceição 88, São Pãulo. **Cable:** "Radigazeta". – **L.P.:** Dir. Gen.: J. H. Ferreira. Dir.: H. Carvalho de Castro. – **D. PRGR.: German:** D. 12.00–12.30. Sun. 19.05–19.55. – V. by letter.
62) Caldas Junior 215, Porto Alegre. – **F.PL.:** M.w. 50 kW.
63) C.P. 45, Florianopolis, SC. – **L.P.:** Dir.: A. Silva. – V. by QSL-card
64) Praca da Republica 141-A, Rio de Janeiro, DF. – **(O.: The Federal Gov., operated by the Ministry of Education). – D. PRGR.: L.L.:** Mo., Wed., Fri.: **Portuguese:** 10.00–10.30. **English:** 10.30–11.00. **Spanish:** 11.00–11.30. **French:** 11.30–12.00. Mo., Thurs.: **German:** 21.00–21.25. – V. by letter.
65) C.P. 1027, Belo Horizonte, MG. – **L.P.:** Dir. Gen.: Dr. M. Andrade. – **D. PRGR.: N.:** D.: 11.00, 15.15, 16.00, 22.00, 01.00. **Italian:** Sun. 17.30. **French:** Wed. 01.05. – **ANN.: P.:** "Aqui Falam PRI3, PRK5 e PRK9, emissoras de ondas curtas e médias da Rádio Inconfidência, Belo Horizonte, Minas Gerais, Brasil" – **F.:** "Ici parlent les postes PRI3, PRK5 et PRK9 de la Radio Inconfidencia, Belo Horizonte, Minas Gerais, Brazil". – **INT.-SIG.:** Gong. – V. by QSL-card or letter. Reports in English allowed.
66) Av. Cruz Cabuga 394, Recife, Pe. – V. by QSL-card.
67) Praça de Patriarca 26, São Paulo. – **D. PRGR.: Japanese:** 08.30–09.00, 23.00–24.00. – **German:** W. 16.00–16.30.
68) Rua Ireneu Marinho 35, Rio de Janeiro, DF. – V. by QSL-card.
69) Rua Barão do Rio Branco 135, Curitiba, Faraná. – V. by letter.
70) Rua Quintino Bocaiuva 22, São Paulo. 1000 kc/s: 24 h.
71) Servicio de Informacao Agricola, Edif. do Ministerio da Agricultura, Rio de Janeiro, DF. – V. by QSL-card.
72) Rua Marquez do Recife, Recife, Pe. – **L.P.:** Dir. Gen.: Dr. F. Pessca de Queires. Dir. Tec.: Dr. P. Fessca de Queirez. – **D. PRGR.:** PRL6: 07.55–04.00. **English:** "Brazil Calling" **D.** 01.05–01.30 on 9565 kc/s. – **ANN.:** "Pernambuco Falando para o Mundo, Radio Jornal do Commercio, Recife, Pernambuco, Brasil". **E.:** "Pernambuco speaking to the World. This is Brazil calling". – V. by QSL-card.
73) C.P. 252 e 4142, São Paulo. – **D. PRGR.: Japanese:** 10.00–11.00. **Italian:** 00.00–00.30. – V. by QSL-card or letter.
74) C.P. 222, Fortaleza. – V. by letter.
75) Av. Venezuela 43, Rio de Janeiro, DF. – **L.P.:** Dir. Gen.: Dr. J. de Medeiros Calmon. Dir. Tec.: I. Climpiew. – **ANN.:** "Rádio Tupi do Rio de Janeiro, o Cacique do Ar." – V. by letter.
76) Rua 24 de Maio 208, São Paulo.
77) C.P. 1164, Porte Alegre. **Cable:** "Pioneira". – **L.P.:** Dir.: M. S. Sobrinho. – **D. PRGR.: German:** Sat. 21.45–22.00. – V. by QSL-card.
78) Praca Maua, 7–22° andar, Rio de Janeiro. – **D. PRGR.:** D.: on m.w. 24 h. On s.w.: 08.30–04.15. – **ANN.:** "Quvem R. Nacional, Rio de Janeiro, Brasil, por suas emissoras de ondas curtas, médias e frequência modulada". – **INT.-SIG.:** First movement of the Brazilian musical poem: "Luar do Sertão". – V. by QSL-card. – **FM.**
79) Av. São João 1285, São Paulo. – **D. PRGR.: German:** W. 21.30–22.30. Sun. 23.00–23.30. **Japanese:** 15.10–15.40, 21.30–22.30, 23.00–00.30.
80) Rua Paula Souza 181, S. Paulo. – **L.P.:** Pres.: J. Jorge Saad. Dir. Gen.: M. P. Leite. Dir. Tec.: J. da Costa Oliveira. – **D. PRGR.:** PRH9: 24 h. – **ANN.:** "Radio Bandeirantes de São Paulo, transmitindo simultaneamente pelas suas estacoes: PRH9 ondas médias 840 kc/s, ZYR77 ondas curtas 6185 kc/s, ZYR78 ondas curtas 11925 kc/s. – A mais popular Emissora Paulista". – **INT.-SIG.:** Vibraphone and organ. – V. by letter and QSL-card.
81) Rua Riachuelo 48, Rio de Janeiro, DF.
81a) Av. Presidente Wilson 164, Rio de Janeiro **(Go., operated by the Ministry of Justice and Interior). – L.P.:** Dir. Broadc.: J. L. Padilha. – **D. PRGR.:** W. 22.30–23.00 relayed by all stations. – V. by letter.
82) C.P. 471, Curitiba, Paraná. – **D. PRGR.: German:** Sun.: 00.00–00.30, 11.30–12.30. Wed. 00.00–01.00. **Japanese:** 11.00–11.30.
83) Rua Mayrink Veiga 15–17, Rio de Janeiro, DF. 1220 kc/s: 24 h.
84) Rua das Palmeiras 322, S. Paulo. – **L.P.:** Dir.: G. Baszynski. Dir. Tec.: G. Rabenhorst. – **D. PRGR.: Japanese:** D. 09.00–09.45. **German:** 10.00–12.30(Sun. 13.00). **French:** Sat., Sun. 23.30–23.55.
85) Rua Wenceslau Braz 78, São Paulo. – **D. PRGR.: Japanese:** 09.00–10.30. **German: D.:** 14.30–15.00, 23.00–23.30.
86) Rio de Janeiro, DF.
87) C.P. 331, Florianopolis, SC. – **D. PRGR.: German:** Sat. 18.00–19.00. – V. by letter.
88) Palacio do Trabalho, 2° andar, Rio de Janeiro, DF. – **D. PRGR.: German:** Thurs. 21.15–22.00.
89) Rua 7 de Setembro 1142, Porto Alegre, RGS. – V. by QSL-card.
90) Brasilia, Goiás.
91) Rua Dois 5, Goiânia, Goias. – **ANN.:** "Rádio Clube de Goiânia, una das Emissoras Associadas, em ondas médias e curtas, para todo o Brasil". – V. by QSL-card.
92) Rua Portugal 6, 2° andar, Salvador, Bahia.
93) Pelotas, RGS. – 95) C.P. 18, Ribeirao Preto, SP.
96) Institute Technologico da Aeronautico, S. José dos Campos, SP.

Medium Waves:
97) **R. Curitibanos,** Curitiba, Paraná.
98) **R. Soc. Passos,** Passos, MG.
99) **R. Soc. Guairaca,** C.P. 1053, Curitaba, Parana.
100) **Soc. R. Atlántica,** C.P. 7, Santos, São Paulo.
101) **R. Cataguazes,** Cataguazes, MG.
102) **R. Londrina,** C.P. 444, Londrina, Paraná
103) **R. Dif. Ouro Verde,** Rua Monsenhor Celso 211, Curitiba, Paraná.
104) **R. Panamericana,** Rua Riachuelo 275, São Paulo.
105) **R. Assuncáo Cearense,** Fortaleza, Ceara.
106) **R. Dif. de Cuiabá,** Cuiabá, Mato Grosso.
107) **R. Dif. Triangulina,** Uberaba, MG.
108) **R. Dif. de Cambará,** C.P. 78, Cambará, Paraná.
109) **R. Dif. de Sergipe,** C.P. 6, Aracaju, Sergipe.
110) **R. A Voz da Araraquarense,** Araraquara, SP.
111) **R. Mantiqueira,** C.P. 62, Cruzeiro, SP.
112) **R. Cabugi,** Av. Rio Branco 729, Natal, RGN: 08.55–02.00.
113) **R. Dif. Portoalegrense,** Porto Alegre, RGS.
114) **R. Soc. Norte de Minas,** C.P. 56, Montes Claros, MG.
115) **Soc. R. Dif. de Sorocaba,** Santos, SP.
116) **R. Mineira,** Belo Horizonte, MG.
117) **R. Clube de Lages,** Rua 15 de Novembro, Lages, SC: 10.00–02.30.
118) **R. Dif. de Minas Gerais,** Juiz de Fora, MG.

119) **Soc. R. Tubá**, Tabarão, SC.
120) **R. Dif. Paraisense**, S. Seb. do Paraiso, MG.
121) **R. Universidade de Recife**, Recife, Pe.
122) **R. Excelsior da Bahia**, Rua Guedes de Brito 14-A, Salvador, Bahia. – **D. PRGR.**: 10.00–03.00.
123) **R. Mundial**, Av. Rio Branco 181, 3° andar, Rio de Janeiro, DF.
124) **R. Itai**, Rua Andrades 1155, Porto Alegre, RGS: 09.00–03.55.
125) **R. Nordeste**, Rua João Pessoa 86, Natal, RGN.
126) **R. Tamoio**, Av. Venezuela 43, Rio de Janeiro, DF. – **L.P.**: Dir. Gen.: Dr. J. de Medeiros Calmon. Dir. Tec.: I. Olimpiew. – **D. PRGR.**: 09.00–04.00. – **ANN.**: "R. Tamoio... musica, exclusivamente musica". – **V.** by letter.
127) **R. Araguari**, Araguari, MG. – 128) **R. Araranguá**, Araranguá, SC.
129) **R. Libertade de Sergipe**, Aracaju, Sergipe.
130) **R. Dif. de Alagoas**, Maceio, Alagoas.
131) **Emis. Reunidas R. Cultura**, Passo Fundo, RGS.
132) **R. Educ. do Nordeste**, Sobral, Ceará.
133) **R. Soc. de Juiz de Fora**, Juiz de Fora, MG.
134) **R. Campos Gerais**, Curitiba, Paraná.
135) **R. Rio Preto**, José do Rio Preto, – 136) **R. Trpá**, São Paulo.
137) **Soc. R. Emis. Metropolitana**, Rua Richuelo 48, Rio de Janeiro, DF: 10.00–03.00.
138) **R. Clube de Sorocaba**, C.P. 1, Sorocaba, SP.
139) **R. Cultura Feira de Santana**, Feira de Santana, Bahia.
140) **R. Minas**, Belo Horizonte. – 141) **R. Cultura de Cambuquira**,
142) **R. Clube de Patos**, Patos de Minas, MG.
143) **R. Teófilo Otoni**, Teófilo Otoni, MG.
144) **R. Soc. de Friburgo**, Praca Getulio Vargas 74, Nova Friburgo, ER: 11.00–16.00, 18.00–01.00.
145) **R. Universidade do Rio Grande do Sul**, Porto Alegre, RGS.
146) **R. Colon**, Joinville, SC.
147) **R. Emis. do Nordeste**, Flores da Cunha, RGS.
148) **R. Anita Garibaldi**, Rua João Pinto 32, Florianopolis, SC.
149) **R. Belo Horizonte**, Belo Horizonte, MG.
150) **Mossoró R. Soc.**, Praca Rafael Fernandes 8, Mossoró, RGN.
151) **R. Cultura de Gravatai**, Rua Coronel Vicente 456, Porto Alegre,
152) **Soc. R. Dif. Vale do Itajai**, Rua 15 de Novembre 343, 2° andar, Blumenau, SC: 11.00–03.00.
153) **R. Presidente Wenceslau**, Av. Newton Prado, Presidente Prudente, SP: 09.00–02.00.
154) **R. Espirito Santo**, Vitória, ES.
155) **R. Cariri**, Campina Grande, Paraiba.
156) **R. Dif. de Joinville**, Rua Pedro Lobo 219, Joinville, SC. – **L.P.**: Dir. Gen. & Dir. Tec.: W. Brosig. – **D. PRGR.**: 09.00–03.00.
157) **R. Educad de Campinas**, Rua Barreto Leme 931, Campino: 24 h.
158) **R. Dif. de Mossoró**, Mossoró, RGN.
159) **R. Princésa de Jacui**, Candelária, RGS.
160) **Prefeitura Municipal de Passo Fundo**, Passo Fundo, RGS.
161) **R. Cachoeiro de Itapemirim**, Cachoeiro de Itapemirim, ES.
162) **R. Soc. Ubaense**, Ubá, MG.
163) **R. Emis. Guarapava**, Guarapava, Paraná.
164) **Réde Paranaense de Emissoras**, Ponta Grossa, Paraná.
165) **R. São Paulo**, Av. Angélica 430, São Paulo.
166) **R. Cultura do Piaui**, Teresina, Piaui.
167) **R. Cultura de Maringa**, C.P. 76, Maringa, Paraná.
168) **R. Copacabana**, Av. Rio Branco 277, R. de Janeiro. – **D. PRGR.**: German: Sun.: 15.00–17.15, 22.00–23.15. Tues. & Fri. 22.00–22.30.
169) **R. Dirceu de Marilia**, C.P. 730, Marilia, SP: 10.00–03.00.
170) **R. Cultura do Piaui**, Teresina, Piaui.
171) **R. Cultura de Pelotas**, Pelotas, RGS.
172) **Delcanalle & Cia.**, Herval D'Oeste, SC.
173) **R. Diamantiense**, Diamantina, MG.
174) **R. Itajubá**, Praca Adolfo Olinto 19, Itajubá, MG.
175) **R. Clube de Blumenau**, Blumenau, SC.
176) **R. Cultura de Monte Alto**, Monte Alto, SP.
177) **R. Guarani**, Rua Goiás 36, Belo Horizonte, MG.
178) **R. Arapua**, João Pessoa, Paraiba.
179) **R. Soc. Oeste Catarinense**, Chapecó, SC.
180) **R. Uirapuru de Fortaleza**, Fortaleza, Ceara.
181) **R. Tingua**, Piraquara, Parana.
182) **R. Sul Fluminense**, Av. Joaquim Leite 465, Barra Mansa, ER.
183) **R. Roquete Pinto**, Av. Almirante Barosso 81, Rio de Janeiro, DF.
184) **R. América**, Rua da Consolacão 116, São Paulo, SP.
185) **R. Imbiará de Araxa**, Araxá, MG.
186) **R. Colonial**, Panambi, RGS.
187) **R. Vera Cruz**, Rua Buenos Aires 168, Rio de Janeiro: 11.45–03.00.
188) **R. Imprensa**, Campo Grande, Mato Grosso.
189) **R. Clube de Santos**, Santos, SP.
190) **R. Caturité**, Campina Grande, Paraiba.
191) **R. Campos Dif.**, Campos, ER.
192) **R. Emis. Convencão de Itu**, Itu, SP.
193) **R. Soc. Muriaé**, Muriaé, MG.
194) **R. Espinhara de Patos**, Patos, Paraiba.
195) **R. Progresso**, Novo Hamburgo, RGS.
196) **R. Arararipe**, Rua Nelson Alencar 90, Crato, Ceará.
197) **R. Dif. Matogrossense**, Av. 13 de Junho 899, Corumbá, M. G..
198) **R. Novo Horizonte**, Novo Horizonte, SP.
199) **R. Nordeste**, Nova Cruz, RGN.
200) **Soc. Emis. Minuano**, Rio Grande, RGS.
201) **R. Chavantes**, Ipameri, Goias.

★ CHILE ★

L.T.: GMT ÷ 4 h. – **P . L.**: Spanish. – **Po.**: 6.944.00. – **Rcv s.**: 660.000. – **E.C.**: 220 V, A.C., 50 c/s. – All st's comm. exc. 65) (cultural).

ASOCIACION DE RADIODIFUSORAS DE CHILE, Casilla 10476, Santiago de Chile. – **Cable**: "Archi". – **L.P.**: Pres.: Sr. E. Sánchez Matte. Secr. Gen.: Julio Menadier Carrasco.

S.W.: Call letters CE are used for all zones. **M.W.**: Call letters CA, CB, CC, CD indicate: A = No. Zone, B = C. Zone, C = So. Zone, D = Antartic Zone. The figures indicate the freq. in kc/s minus one cipher, f. inst. CB82 = C. Zone 820 kc/s. – Abbreviations: Soc. = Sociedad. Nac. = Nacional.

STATIONS: Short Waves.

	Call	kc/s	m	kW	m.w.	Name and h. of transmissions
1)	CE8AA	5750	52.18	0.5	570	Soc. Nac. de Agricultura: irr.
2)	CE601	6010	49.92	1.0	1270	Emissoras Norte: 11.00–04.00
3)	CE602	6020	49.83	10.0	1080	Diego Portales: 11.00–05.00
4)	CE604.5	6045	49.63	5.0	900	R. Libertad: 11.00–04.00
5)	CE607	6070	49.92	5.0	1060	Soc. Nac. de Mineria: 11.00–04.00
6)	CE610	6100	49.18	0.25		R. Calama: 11.30–04.00
1)	CE611	6110	49.10	0.5	570	Soc. Nac. de Agricultura: 11.30–05.00
7)	CE615	6150	48.78	10.0	760	R. Coop. Vitalicia: 11.00–04.00
8)	CE619	6190	48.47	5.0	1140	Corp. Chilena de Broadc.: 11.25–04.00
9)	CE766	7660	39.16	1.0	1010	R. Yungay: 11.30–06.30
8)	CE950	9500	31.58	5.0	1140	Corp. Chilena de Broadc.
10)	CE960	9600	31.25	10.0	1300	R. Pres. Balmaceda: 10.45–04.30
7)	CE970	9700	30.93	10.0	760	as 6150/11940 kc/s.
11)	CE1174	11755	25.52	5.0	930	R. Nuevo Mundo: 11.25–04.30
12)	CE1185	11850	25.32	2.5	1380	R. Cruz del Sur: 12.00–04.00
7)	CE1190	11940	25.13	5.0	730	R. Coop. Vitalicia: 11.00–04.00
5)	CE1196	11970	25.06	5.0	1060	Soc. Nac. de Mineria
1)	CE1180	12000	25.00	5.0	570	Soc. Nac. de Agricult.: 11.30–04.00
5)	CE1511.5	15115	19.85	5.0	1060	Soc. Nac. de Mineria
8)	CE1515	15150	19.80	5.0	1140	Corp. Chil. de Broadc.: 11.25–04.00
1)	CE1530	15300	19.61	0.5	570	Soc. Nac. de Agricultura

Medium Waves: °=Short Wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) CB57	°570	15	4) CA90	°900	1	52) CB126	1260	1
13) CC59	590	1	11) CB93	°930	10	2) CA127	°1270	1
14) CB62	620	2	34) CA96	960	0.3	53) CC127	1270	0.25
15) CB63	630	1	35) CC96	960	0.3	10) CB130	°1300	1
16) CA63	630	0.25	36) CB97	970	1	54) CD132	1320	1
17) CD63	630	1	37) CD101	1010	1	55) CB132	1320	1
18) CA64	640	0.5	9) CB101	°1010	1	56) CC133	1330	0.15
19) CC64	640	1	7) CD103	1030	10	57) CB134	1340	1
20) CB66	660	12	38) CB103	1030	1	58) CA135	1350	0.25
5) CB68	°680	1	5) CB106	°1060	100	59) CC135	1350	0.25
21) CC68	680	0.5	39) CA108	1080	1	60) CD135	1350	0.5
22) CD69	690	1.2	3) CC108	°1080	5	61) CD137	1370	1
23) CB70	700	1	40) CA109	1090	0.25	12) CB138	°1380	1.5
24) CA70	700	0.25	41) CC109	1090	1	62) CC141	1410	1
7) CB73	°730	10	42) CD111	1110	1.25	63) CB141	1410	1
7) CB76	°760	75	43) CB111	1110	1	64) CA141	1410	
25) CB82	820	1	44) CC111	1110	0.1	65) CB143	1430	0.25
26) CA82	820	0.5	8) CB114	°1140	50	66) CC143	1430	0.1
27) CD82	820	1	45) CB116	1160	2	67) CC144	1440	1
28) CC84	840	0.8	46) CC116	1160	1.5	68) CB146	1460	0.1
29) CD84	840	1	47) CB118	1180	25	69) CD146	1460	0.25
30) CB84	840	1	1) CD121	°1210	10	70) CB147	1470	0.25
31) CD89	890	1	48) CA121	1210	0.25	71) CC148	1480	0.25
32) CB89	890	1	49) CB124	1240	0.25	72) CC152	1520	0.25
33) CC90	900	0.1	50) CC125	1250	1	73) CB153	1530	0.25
1) CB90	°900	1	51) CA126	1260	0.5	74) CB154	1540	0.25
						75) CB156	1560	1

St's. 2) 13) 17) 31) 37) belong to 7).

Short Waves:

1) CB57: Augustinas 718, Casila 40-D, Santiago. CB90: Casilla 90, Valparaiso. CD121: Casilla 327, Los Angeles. – **L.P.**: CB57: Dir.: F. Echeverria. CB90: Mgr. J. P. Aedo. Dir. Tec.: J. Coiro T. – **D. Prgr.**: CB57: **German Hour**: Mo.–Sat. 23.30–24.00. Sun.: 03.00–04.00. 22.00–23.30. – **V.** by QSL-card. – **F.PL.**: CB90: One m.w., one s.w. tr. prgrs. in three languages.

2) Casilla 708, Antofagasta. – **L.P.**: Dir.: E. Torrens.

3) Casilla 111, Talca. (Santiago Office: Augustinas 1022, Of. 1021,

Santiago). – L.P.: Executive Pres.: A. Hasbún A. Dir. Gen.: R. Tarud S. – D. Prgr.: N. every h. on the h. 12.00–04.00. – ANN.: "CC 108 onda larga y CE602 onda corta, Radio Portales desde la ciudad de Talca, Chile". –V. by letter. – F.PL.: CB78 (75 kW) under construct.
4) Casilla 457, Antofagasta. – L.P.: Dir.: A. Cajiao.
5) CB106: Casilla 2626, Santiago. CB68: Casilla 337, Viña del Mar. – L.P.: CB106: Mgr.: E. Sanchez. CB68: Mgr.: L. Muñoz. – ANN.: "Santiago de Chile, R. Soc. de Mineria". – INT.-SIG.: Gong. – V. by QSL-card.
6) Casilla 1, Calama. – L.P.: O. P. Vergara Keller. – N.: 11.30, 16.00, 01.00. – V. by letter.
7) CB76: Casilla 13130, Santiago. CB73: Casilla 1627, Valparaiso. L.P.: CB76: Mgr.: E. Hamilton. CB73: Gen. Mgr.: R. Reyes. Dir. Tec.: R. Renard. Chain Eng.: A. Elsitdich. – N. Every h. on the h. ANN.: "La Voz de Chile para toda America". All st. tr. simultaneously: "Transmite Radio Cooperativa Vitalicia y la Primera Cadena Chilena de Emisoras". – INT.-SIG.: Gong with central theme of "Pomp and Circumstance" – V. by QSL-card.
8) Casilla 244V, Santiago. – L.P.: Dir.: Fco. Mihovilovic. – ANN.: "Transmite CB114 Radio Corporacion de Santiago de Chile, con sus ondas cortas en 19 y 49 metros".
9) Casilla 3041, Santiago. – L.P.: Dir.: H. Beweis. – ANN.: "CB101 y CE766 Estaciones de Radio Yungay de la Corporacion Chilena de Radiodifusion Ltda., Santiago de Chile". – INT.-SIG.: First movement of the song: "Donde el Azul de la Noche encuentra el Ove del Dia". – V. by letter.
10) Nueva York 53, piso 7°, Santiago. – L.P.: Dir.: M. L. del Solar. – Int.-Sig.: Gong with notes from the melody "Los Copihues Rojos". V. by QSL-card.
11) Casilla 9255, Santiago.
12) Casilla 3126, Santiago. – German Hour: 00.00.

Medium Waves:
13) R. Condor, Casilla 486, Concepcion.
14) R. La Reina, Nueva York 25, Santiago. – L.P.: Dir.: G. Camus.
15) R. Prieto, Edwards 382, Valparaiso.
16) R. Esmeraldas, Casilla 209, Iquique.
17) R. Sur, Casilla 60-D, Valdivia.
18) R. Norte Verde, Casilla 252, Ovalle. – L.P.: Dir.: F. Morales.
19) R. El Sur, Casilla 482, Concepcion. – L.P.: Dir.: M. S. Lagos.
20) R. Chilena, Casilla 10277, Santiago. – L.P.: Dir.: R. Vergara. – D. Prgr.: "German Hour": D.: 17.00–18.00, 21.00–22.00.
21) R. Lautaro, Casilla 214, Talca. – L.P.: O.: Abasolo y Tarud Ltda.
22) R. La Frontera, Casilla 516, Temuco. – L.P.: Dir.: D. de Mayo.
23) R. Santiago, Casilla 10195, Santiago. – L.P.: Dir.: R. Vergara. – D. Prgr.: "German Hour": D. 17.35–18.00.
24) R. Coya, Maria Elena, Antofagasta and Casilla 13260, Santiago.
25) R. del Pacifico, Casilla 3591, Santiago. – L.P.: Dir.: R. Vivado.
26) R. Del Salitre, Casilla 7-D, Iquique.
27) R. Concordia, Casilla 167, Valdivia. – L.P.: Dir.: A. Alied.
28) R. Almirante Latorre, Casilla 358, Talcahuaño.
29) R. Sago, Casilla 35-O, Osorno. – L.P.: Mgr.: J. Kemp M. Dir.: A. Coronel W. – D. Prgr.: 11.30–04.00. – F.PL.: 10 kW.
30) R. Recreo, Calle Valparaiso 625, Viña del Mar, Casilla 1735, Valparaiso. – L.P.: Mgr.: E. Godoy Donoso. Dir. Tec.: J. C. Tribuzio. – D. Prgr.: 12.00–04.00.
31) R. Polar, Casilla 447, Punta Arenas.
32) R. Bulnes, Casilla 1555, Santiago.
33) R. El Roble, Casilla 37, Parral. – L.P.: Dir.: J. Rogazy.
34) R. Riquelme, Casilla 141, Coquimbo. – L.P.: Dir.: C. Nieme.
35) R. Condell, Yungay 10, Curio. – L.P.: Dir.: A. Cuerra.
36) R. Prat, Casilla 4042, Santiago. – L.P.: Dir.: P. Valenzuela.
37) R. Llanquihue, Casilla 356, Puerto Montt.
38) R. Caupolican, Casilla 506, Valparaiso.
40) R. Toco, Central Maria, Tocopilla.
41) R. Rancagua, Casilla 21, Rancagua. – L.P.: Dir.: J. Romero.
42) R. Austral, Casilla 40 D, Punta Arenas.
43) R. Vina del Mar, Casilla 534, Viña del Mar.
44) R. Centenario, Casilla 18, San Javier. – L.P.: Dir.: M. Gaete.
45) R. José Miguel Carrera, Tenderini 115, piso 9, Santiago.
46) R. Simon Boliva , Casilla 318, Concepcion. – L.P.: Dir.: A. Jaen.
47) R. Cristobal Colon, Casilla 89-V, Valparaiso.
48) R. Atacama, Casilla 48, Copiapo.
49) R. Valparaiso, Casilla 1096, Valparaiso.
50) R. Lircay, Casilla 450, Talca. – 51) R. El Morro, Arica.
52) R. Nacional, Casilla 10310, Santiago. – L.P.: L. H. Sorrel.
53) R. Nuble, Casilla 21-B. – L.P.: Dir.: V. Bustos.
54) R. Baquedano, Casilla 758, Valdivia. – L.P.: Gen. Man.: C. Cockbaine. – D. Prgr.: 12.00–18.30, 20.00–03.00. – V. by QSL-card.
55) R. Cochrane, Casilla 887, Valparaiso.– L.P.: Dir.: R. Arellano.
56) R. La Discusión, Casilla 14-D, Chillan, –L.P.: Dir.: A. Lagos.
57) R. Cervantes, Casilla 4650, Santiago. – L.P.: Dir.: L. Leiva S.
58) R. Pampa, Edif. F.F.C.C., Of Pedro de Valdivia, Antofagasta.
59) R. Minerva, Casilla 119, Rancagua. – L.P.: Dir.: R. Sanhueza C.
60) La Voz del Sur, Casilla 226, Punta Arenas.
61) R. Pudeto, Casilla 404, Valdivia. – L.P.: Dir.: R. Gomez.
62) R. Chacabuco, Casilla 252, Quillota. – L.P.: Dir.: E. Lopez.
63) R. Araucania, Casilla 462, Concepcion. – L.P.: Dir.: R. Arjona.
64) R. El Loa, Casilla 439, Antofagasta. – L.P.: Dir.: J. A. Garcia A.
65) R. Universidad Santa Maria, Casilla 110-V, Valparaiso. – L.P.: Dir. Gen.: C. Ceruti. Dir. Tec.: G. Feick. – D. Prgr.: 01.00–02.30. –
66) R. Independencia, Casilla 132, Molina. – L.P.: Dir.: R. Jara G. – D. Prgr.: 11.00–06.00. – V. by QSL-card.
67) R. El Cobre, Casilla 21, Rancagua.
68) R. Magallanes, Casilla 3724, Santiago. – L.P.: Dir.: S. Guttman.
69) R. Arauco, Casilla 6, Angol. – L.P.: Dir.: J. Abasolo.
70) R. Universidad Santa Maria, Av. Los Placeres 401, Valparaiso.
71) R. Manuel Rodriguez, Casilla 147, San Fernando.
72) R. Patrio Lynch, Vivar 489, Iquique. – L.P.: Dir.: L. R. Morales.
73) R. Soberania, Casilla 11-D, Linares. – L.P.: Dir.: R. Abasolo.
74) R. Aconcagua, Casilla 100, San Felipe. – L.P.: Dir.: G. Gonzalez.
75) R. Cronos, Bulnes 79, Santiago. – L.P.: Dir.: G. Pacheo.
76) R. Sargento Aldea, Casilla 38, San Antonio.

R. MILITAR AUSTRAL (Military)
ADDR.: Punta Arenas. Station: CD125 1250 kc/s 240 m 0.5 kW. S.W. CE920 9200 kc/s 32.61 m 0.5 kW. – D. Prgr.: 00.00–03.30.

★ COLOMBIA ★

L.T.: GMT÷5 h. – Pr. L.: Spanish. – Po.: 15.000.000. – Rcvrs.: 3.000.000. E. C.: 150/260 V, A. C., 60 c/s.

MINISTERIO DE COMUNICACIONES, DIRECCION GENERAL DE RADIOCOMUNICACIONES, Bogota.

CULTURAL STATIONS:

Short Waves: Call: HJ---. *=inactive.

Call	kc/s	m	kW	m.w.	Name
1) GO	3250	92.31	10/25/50	800	R. Sutatenza
3) GJ	4755	63.10	2.5	1540	Reina de Colombia
1) GC	5075	59.13	10/25/50	800	R. Sutatenza
2) CT	6185	48.50	10	680	R. Televisora Nacional

Medium Waves: Call: HJ---. °=short wave. *=also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
1) CY °	550	10.0*	4) DU °	1410	0.5*	3) GD °	1540	0.35
2) KA °	680	50.0*	8) KU	1430	0.25	12) DN	1540	0.15
5) CY	800	10.0*	9)	1480	1.0	13) GP	1550	1.0
2) HK °	960	10.0*	1) EH °	1500	1.0*	14) FH	1570	2.0
1) GJ °	1150	10.0*	10) BA	1530	1.0	5) GP °	1580	1.0*
6) DI	1240	9.0*	11) DF	1530	0.25	15) KP	1580	0.15
7) KM	1400	0.25	1)	1540	1.0*			

COMMERCIAL STATIONS:

Short Waves: Call: HJ---. *=inactive.

Call	kc/s	m	kW	m.w.	Name & h. of tr.
16) DT	2402	124.7	0.06	1190	R. Nutibara
17) EF	4765	62.95	3.0	1210	R. dif. Occidente 10.45–05.00
18) AB	*4780	62.76	5.0	730	Emisoras Unidas
19) FU	*4795	62.54	1.0	1250	La Voz del Comercio[1])
20) TB	4795	62.54	10.0	800	R.dif. Militar
21) BB	4815	62.31	1.0	1270	La Voz de Cucuta[3]) 11.00–05.00
22) HC	4825	62.18	1.0	1350	R. Nariño[1]) 12.00–04.00
23) KE	4835	62.05	1.0	920	R. Continental[2]) 13.00–04.00
24) GF	4845	61.92	1.0	1130	R. Bucaramanga 11.00–04.00
25) FN	4855	61.79	1.0	1240	R. Neiva[3]) 11.00–04.00
26) FA	4865	61.66	1.0	1330	La Voz de Pereira[1]) 12.30–04.00
27) BG	*4875	61.54	1.0	1350	La Voz del Norte
28) CH	*4895	61.29	5.0	890	La Voz de la Victor
29) AH	4905	61.16	1.0	1050	Emis. Atlantico 11.30–04.00
30) EQ	4915	61.04	1.0	1380	La Voz del Cauca[1]) 11.30–04.00
31) LF	4935	60.81	1.0	1440	Ondas de Ibague[1]) 11.00–04.00
32) CW	4945	60.66	1.0	1160	Emis. Suramerica 11.00–05.00
33) AF	*4965	60.42	5.0	930	Emis. Fuentes
34) GV	4985	60.18		560	Transmis. Independencia
35) FW	5020	59.76	1.0	1050	Transmis. Caldas[1]) 12.00–04.00
36) DJ	5040	59.52	1.0	1480	La Voz del Choco
37) DW	5055	59.36	1.0	980	La Voz de Medellin[1]) 11.50–04.00
38) CF	5960	50.34	1.0	870	La Voz de Bogotá[2]) 11.00–05.00
39) LY	*5980	50.16	10.0	910	R. Sinfonia
34) GW	5985	50.13		560	Transmis. Independencia
40) FC	*6010	49.92	2.5	1080	La Voz de Armenia[2])
41) FK	6010	49.92	10.0	1230	La Voz Amiga 11.00–04.00
42) CX	6018	49.85	10.0	710	La Voz de Colombia 12.00–06.00
43) CB	6040	49.67	10.0	950	La Voz del Tolima[2]) 12.00–04.00
44) EX	6054	49.55	5.0	1030	R. Pacifico[1]) 11.00–04.30
20) TB	6128	48.96	10.0	800	R.dif. Militar 17.00–04.00
45) EV	*6135	48.90	1.0	1150	La Voz del Valle
46) KJ	6160	48.70	10.0	600	Nueva Granada[1]) 11.00–05.00
47) EZ	6195	48.43	1.0	900	La Voz de Cali[2]) 11.00–05.00
20) TC	*9620	13.19	10.0	800	R.dif. Militar
21) BD	*21635	13.86		1270	La Voz de Cucuta[3])

Medium Waves: Call: HJ---. °=short wave. *=also FM.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
34) GS	°560	10*	72) EO	1090[1]	10	104) AD	1330	1
46) KL	°600[1]	25*	73) CN	1100[3]	1*	26) FE	°1330[1]	5*
48) FD	620[2]	20*	74) FQ	1100[2]	5*	105) GU	1340[1]	1*
49) KH	640	10	75) EW	1110[3]	1*	106) KY	1350[3]	1
50) AQ	660[4]	10*	76) AC	1110[2]	1	107) DS	1350	1*
42) CZ	°710	10*	77) DC	1120	10*	27) BF	°1350	1
18) AN	°730	10*	78) JC	1130[2]	1	22) HA	°1350[1]	1
51) CU	740	10*	24) GE	°1130	10*	108) FH	1360[1]	1
52) AJ	750[4]	10	79) CL	1140[2]	2	109) FR	1360[1]	1
53) DK	770[3]	50*	80) DL	1150[1]	1*	110) KX	1370[1]	1*
54) HB	780[2]	10*	45) EB	°1150	1	111) EN	1370	1
20) TA	°800	10	32) CO	°1160	1*	112) BO	1370	1*
55) ED	820[3]	50*	81) FX	1170[3]	1*	113) GH	1380[3]	1*
56) KC	840[3]	50*	82) BJ	1170[3]	1	30) EA	°1380[1]	0.75
57) EP	850[1]	10*	83) JE	1180[2]	1	114) AS	1390	0.75
38) CE	°870[2]	10*	84) CD	1180	1	115) FO	1400	1
58) DM	880[2]	10*	85) GK	1180[1]	10*	116) JA	1400[3]	1*
28) CI	°890	10*	86) DT	1190	1*	117) EI	1410[2]	1
47) EY	°900[2]	10*	87) AV	1200[1]	2.0	118) BH	1410[1]	1
39) DO	°910	25*	88) CV	1200	1*	119) FS	1410[1]	0.75
23) CS	°920[2]	10*	89) BE	1210[1]	1	120) BD	1420[2]	1
33) AE	°930[3]	10	17) EL	°1210	5	121) LG	1430[2]	1
59) GB	940	10*	90) KR	1220	1*	122) EK	1430	1
43) LA	°950[2]	10*	41) FF	°1230	10*	31) FL	°1440[1]	1
60) FN	970[3]	10*	25) FP	°1240[3]	1	123) BZ	1440	1
37) DB	°980[1]	10*	91) KW	1240	1*	124) EG	1450	0.75
61) ES	990[2]	10*	19) FG	°1250[1]	5*	125) GM	1450[1]	1
62) AI	1010	5*	92) AO	1260	1*	126) FI	1450[3]	1
63) DQ	1010[2]	1*	93) KN	1260	2*	127) AL	1460[1]	1
64) CC	1020	1*	94) FT	1270[3]	1*	128) EJ	1460[1]	1
44) ER	°1030[1]	5*	21) BB	°1270[3]	1*	129) FZ	1460	1
65) CJ	1040[1]	1*	95) AR	1280[4]	5*	130) FC	1470	1
66) DR	1040	1*	96) DA	1280[1]	1*	131) BK	1470[1]	1
29) AH	°1050	1	97) CK	1290	1*	36) DH	1480[2]	1
35) FJ	°1050[1]	1*	98) EC	1300	1	132) CL	1480[1]	1
67) CG	1060	2.5*	99) BK	1300[3]	1	133) LE	1490[2]	1
68) AZ	1060[3]	1	100) IA	1310[1]	1	134) ET	1510	1
69) JF	1070[2]	5*	101) AK	1310	2.5	135) JB	1520[1]	1*
70) DZ	1070[3]	1*	102) LD	1310[2]	1	136) GA	1560[4]	1
40) FM	°1080[2]	10*	103) GN	1320[4]	1*	137) EM	1560	1
71) AT	1080[3]	1*						

[1]) belongs to R. Cadena Nacional. [2]) to Ci. Todelar. [3]) to Primera Cadena Radial Colombiana (Caracol). [4]) to R. Cadena del Norte.

CULTURAL STATIONS: Short Waves:

1) **R. Sutatenza,** Escuelas Radiofónicas, Calle 20 No. 9-45, Bogota, D.E. **L.P.:** Dir. Gen.: J. J. Salcedo G. Dir. Tec.: L. M. Pick P. – **D. Prgr.:** N.: 12.00(W), 23.20, 01.00(W), 03.00(W). – **ANN.:** "Por la Fe y la Cultura, bases del verdadero progreso, transmite Radio Sutatenza, del servicio de Radiodifusión de Acción Cultural Popular, desde Sutatenza, en Boyacá, República de Colombia". – **V.** by QSL-card. R.p. preferred.

2) Transversaal 17 No. 25–65, Bogotá. – **L.P.:** Mgr.: F. Gomez Argudelo. – **D. Prgr.:** D. 12.10–05.00. E. by R.: W. 12.15–12.30. – **N.:** W.: 13.00 (exc. Mo.), 20.30, 22.30, 23.30, 01.30 (exc. Mo.), 04.45 (exc. Mo.). Sun. 18.00. – **ANN.:** "Radio Televisora Nacional de Colombia". – **V.** by QSL-card or letter. – **F.Pl.:** 4 m.w. st.

3) Chiquinquira. – **L.P.:** Padres Dominicos.

4) Carrera 43 No. 47–96, Medellin.

Medium Waves:

5) **Escuelas Radiofonicas,** Calle 20, 9–45, Bogotá. – **L.P.:** as 1).

6) **R. Bolivariana,** Apt. Aéreo 1178, Medellin.

7) **Emis. Mariana,** Bogotá. – **L.P.:** Dir.: P. Sanchez.

8) **La Voz de Maria,** Bogotá. – **L.P.:** Dir.: Escallon.

9) **Ecos de Tequendama,** Rafael Rayes. – **L.P.:** Dir.: Jorge Rojas V.

10) **La Voz de Pamplona,** Pamplona, N. de Santander. – **V.** by QSL-card.

11) **R. Pensilvania,** Pensilvania. – **L.P.:** Mgr.: H. Martin.

12) **Liceo Departemental,** Sonson.

13) **R. Parroquial,** Nemocón.

14) **R. Quimbaya,** Quimbaya. – **L.P.:** Mgr.: N. Duque A.

15) **R. Cultural de Arbelaez,** Arbelaez. – **L.P.:** Mgr.: L. A. Garcia.

COMMERCIAL STATIONS: Short Waves:

16) Medellin. – **L.P.:** Mgr.: J. Garcia L.

17) Carrera la No. 16–89, Cali. – **L.P.:** Mgr.: E. Rueda S.

18) Apt. Aéreo 154, Barranquilla. – **L.P.:** J. Tobón L. – **V.** by QSL-card.

19) Armenia. – **L.P.:** Mgr.: L. Herrera.

20) Ministerio de Guerra, Comando General de las FF.AA., Departemento No. 2, Bogotá. (Colombian Armed Forces). – **V.** by QSL-card.

21) Av. 5a. No. 10–11, Cúcuta. – **L.P.:** Mgr.: F. Maldernado.

22) Apt. Aéreo 390, Pasto. – **L.P.:** Dir. Gen.: E. Becerra. Mgr.: M. Santacruz. – **V.** by QSL-card or letter.

23) Apt. Aéreo No. 53–42, Bogotá. – **V.** by letter.

24) Apt. Aéreo 572, Postal 47, Bucaramanga. – **V.** by letter.

25) Calle 7a. No. 5–69, Neiva. – **V.** by QSL-card.

26) Calle 18 No. 8–54 (3° piso), Pereira. – **L.P.:** Mgr.: J. Ortiz P.

27) Calle 9a. No. 5–32, Cúcuta. – **L.P.:** Mgr.: S. Jordán P.

28) Carrera 7a. No. 11–35, Bogotá. – **L.P.:** Dir. Gen.: A. Gaitan.

29) Paseo Bolivar, Carrera Cuartel, Barranquilla. – **V.** by QSL-card.

30) Apt. Aéreo 535, Popayan. – **V.** by letter.

31) Edif. Raad, Ibague. – **L.P.:** Dir. Gen.: L. E. Martinez R.

32) Carrera 9a. No. 12–23, Bogotá. – **L.P.:** Dir. Gen.: A. Naranjo V. Mgr.: A. Mejia A. – Mbg.: D. 03.00. – **V.** by QSL-card.

33) Apt. Aéreo 91, Nal. 31, Cartagena. – **L.P.:** Mgr.: R. Fuentes.

34) Tunja. – **L.P.:** Mgr.: L. Lopez R.

35) Apt. Aéreo 244, Manizales. – **L.P.:** Mgr.: I. Escobar.

36) Medellin.

37) Apt. Aéreo 1244, Medellin. – **L.P.:** Mgr.: L. Betancourt T. – **N.:** 12.00, 17.30, 24.00. – **V.** by letter.

38) Carrera 6a. No. 14–88, Bogotá. – **V.** by letter.

39) Carrera 47 (Sucre), No. 53–29, Medellin. – **L.P.:** Mgr.: A. Sanin E. – **V.** by QSL-card or letter.

40) Carrera 16 entre Calles 19 y 20, Armenia.

41) Apt. Aéreo 89, Pereira. – **V.** by letter.

42) Carrera 9a. No. 12–23, 3° piso, Bogotá. – **L.P.:** Mgr.: J. Munera L. Dir. Tec.: A. J. Sanchez. – **N.:** 17.30, 23.30. – **ANN.:** "La Voz de Colombia – 710 en su radio". – **INT.-SIG.:** First notes from Grieg's Concerto in A-minor. – **V.** by QSL-card.

43) Apt. Aéreo 604, Ibague. – **L.P.:** Mgr.: F. Restrepo. – **ANN.:** "Amigos nuestros: Desde la ciudad de Ibagué les habla La Voz del Tolima del Circuito Todelar de Colombia – lo moderno en radio". – **V.** by QSL-card or letter.

44) Apt. Aéreo 2180, Cali. – **V.** by letter.

45) Calle 23, No. 1–25, Cali. – **L.P.:** Dir.: C. Aristizabal.

46) Carrera 15, No. 13–47, Bogotá. **Cable:** "Nueva Granada". – **L.P.:** Mgr.: R. Jaramillo I. – **V.** by letter.

47) Apt. Aéreo 1972, Calle 11, No. 9–20, Cali. – **Cable:** "Vozcali". – **L.P.:** Mgr.: B. Tobon de la Roche. – **V.** by letter.

Medium Waves:

48) **R. Manizales,** Apt. Aéreo 67, Manizales. – **V.** by letter.

49) **R. Renacimiento,** Bogotá. – **L.P.:** Dir.: G. Alzate A.

50) **R. Miramar,** Apt. Aéreo 246, Cartagena. – **V.** by letter.

51) **R. Tricolor,** Bogotá. – **L.P.:** Mgr.: J. A. Vanegas.

52) **La Voz de Barranquilla,** Barranquilla. – **L.P.:** Mgr.: H. Franco B.

53) **La Voz de Antioquia,** Maracaibo No. 46–80, Medellin. – **L.P.:** Mgr.: H. Restrepo. – **V.** by QSL-card.

54) **Ecos de Pasto,** Av. Santander No. 21–76, Pasto.

55) **La Voz del Rio Cauca,** Carrera 1a. No. 18–39, Cali.

56) **Emisora Nuevo Mundo,** Calle 19, No. 9–48, Bogotá. – **L.P.:** F. Londoño Henao. – **V.** by QSL-card.

57) **Voces de Occidente,** Carrera 14 No. 2–31, Buga.

58) **R. Vision,** Medellin. – **L.P.:** Dir. Gen.: Junta Directiva. Mgr.: J. Tobon de la Roche. Dir. Tec.: F. Morandini. – **D. Prgr.:** 10.45–05.00. **N.:** 12.00, 17.15, 23.45. – **ANN.:** "Amigos nu etros desde la ciudad de Medellin, les habla Radio Vision, HJDM 880 kc/s. Del Circuito Todelar de Colombia, lo moderno en Radio".

59) **R. Eco,** Cali. – **L.P.:** Mgr.: H. Herrera B.

60) **La Voz del Cafe,** Carrera 8a. No. 15–47, Pereira.

61) **R. El Sol,** Cali. – **L.P.:** Mgr.: J. Palacios S.

62) **R. Kalamary,** Barranquilla. – **L.P.:** Mgr.: E. Ariza.

63) **Emisora Clarida,** Av. 10 de Mayo No. 49–53, Medellin.

64) **Emisora Mil Veinte,** Carrera 7a. No. 24–78, Bogotá. – **L.P.:** Mgr.: A. Gutierrez W.

65) **R. Progreso,** Calle 13, No. 14–17, Bogotá.

66) **La Voz del Triunfo,** Calle 51 (Boyaca), No. 51–31, Medellin.

67) **R. Santa Fé,** Calle 17 No. 10–47, Bogotá.

68) **La Voz del Sinu,** Monteria. – **L.P.:** Mgr.: C. A. Barrios.

69) **R. Musical,** Calle 11 No. 9–20, Cali. – **L.P.:** Mgr.: B. Tobon.

70) **R. Reloj,** Calle 53 No. 46–80, Medellin.

71) **R. Reloj,** Carrera 42, No. 23–46, Barranquilla.

72) **Ondas del Valle,** Carrera 5a. No. 12–23, 3° piso, Cartago.

73) **R. Reloj,** Calle 19 No. 8–48, Bogotá. – **L.P.:** F. Londoño.

74) **La Voz del Pueblo,** Carrera 8a. No. 15–89, Pereira.

75) **R. Reloj,** Carrera 1a. No. 18–39, Cali.

76) **Emisora Riomar,** Calle 32 No. 42–19, Barranquilla.

77) **Ecos de la Montaña,** Calle 53 No. 52A–42, Medellin.

78) **R. Cartago,** Carrera 4a. No. 10–62, Cartago.

79) **R. Girardot,** Calle 8a. No. 10–19, 3° piso, Girardot.

80) **R. Cristal,** Medellin. – **L.P.:** Dir. Gen.: J. Zuleta F.

81) **La Voz del Ruiz,** Manizales. – **L.P.:** Mgr.: F. Londoño.

82) **La Voz de Santa Maria,** Santa Maria. – **L.P.:** Mgr.: J. A. Sanchez.

83) **R. Villa de Cespedes,** Tulua. – **L.P.:** Mgr.: R. Zuluaga.

84) **Ondas del Fusacatan,** Fusagasuga.

85) **R. Santander,** Calle 33 No. 15–11, Bucaramanga.

86) **R. Nutibara,** Edif. Cardenas Medellin. – **L.P.:** as 16).

87) **R. Cordobesa,** Monteria. – **L.P.:** Mgr.: R. Jimenez.

88) **R. Popular,** Carrera 9a. No. 13–42, Bogotá.

89) **Ecos de Ocaña,** Ocaña. – **L.P.:** Mgr.: J. de Dios Lobo.

90) **R. Industrial,** Bogotá. – **L.P.:** Mgr.: V. Sanabria.

91) **R. Modelo**, Bogotá. – **L.P.**: Dir. Gen.: H. Tellez B.
92) **R. Vigia**, Apt. Aéreo 154, Nal. 324, Barranquilla.
93) **Emisora Metropolitana**, Carrera 7a. No. 22–79, Bogotá.
94) **Ecos del Combeima**, Ibague. – **L.P.**: Dir. Gen.: C. Rafúl.
95) **La Voz de Cartagena**, Apt. Aéreo 246, Cartagena.
96) **Emisora Siglo XX**, Carrera 51 (Bolivar), No. 59–53, Medellin.
97) **El Mundo en Bogotá**, Carrera 7a. No. 17–14, 3° piso, Bogotá.
98) **R. Libertador**, Carrera 3a. No. 15–80, Cali.
99) **R. Valledupar**, Valledupar. – **L.P.**: Mgr.: S. Aristizabal.
100) **R. Villavicencio**, Calle 5a. Carrera 6a, Villavicencio.
101) **La Voz de la Patria**, Apt. Aéreo No. 231, Nal. 621, Barranquilla. **L.P.**: Gen. Mgr.: C. Vasallo M. – **V.** by QSL-card.
102) **R. San Eugenio**, Carrera 15 No. 15–32, Santa Rosa de Cabal.
103) **R. Barrancabermeja**, Barrancabermeja.
104) **R. Vigia**, Apt. Aéreo 91, Nal. 31, Cartagena.
105) **Ondas del Fonce**, San Gil. – **L.P.**: Dir. Gen.: G. Serrano.
106) **Ondas del Puerto**, Calle 14 No. 11–19, Girardot.
107) **La Voz de las Americas**, Carrera 51 (Bolivar), No. 51–40, Medellin. – **L.P.**: Dir. Gen.: J. Nicholls V.
108) **La Voz de Anserma**, Anserma. – **L.P.**: Mgr.: H. Martin V.
109) **Ondas del Huila**, Banco Comercio, Neiva.
110) **La Voz del Cundinamarca**, Bogotá.
111) **R. Cultura**, Carrera 7a No. 16–42, Cali.
112) **R. Piloto**, Barranquilla. – **L.P.**: Mgr.: P. J. Cañizares.
113) **R. del Comercio**, Calle 35 No. 12–66, Bucaramanga.
114) **Emisoras Variedades**, Calle 35 No. 35–106, Baranquilla.
115) **R. Luz**, Carrera 22 No. 16–19, Manizales. – **L.P.**: Dir. Gen.: J. Hoyas.
116) **R. Buaneventura**, Calle 5a, Carrera 2a, Buaneventura.
117) **Emisora Gualadajara**, Carrera 3a. No. 8–53, Buga.
118) **R. Magdalena**, Calle 7a. No. 5–54, Santa Maria.
119) **Ondas del Guali**, Honda. – **L.P.**: Mgr.: G. Aristizabal.
120) **R. Guaimaral**, Apt. No. 5-54, Cúcuta.
121) **La Voz de la Dorada**, Dorada. – **L.P.**: Dir. Gen.: J. Gomez P.
122) **R. Tulua**, Carrera 26, Calle 26 y 27, Tulus.
123) **Ondas de Riohacha**, Riohacha. – **L.P.**: Dir. Gen.: L. Ocando.
124) **R. Belalcazar**, Calle 5a. No. 5–81, Popayán.
125) **R. Sogamoso**, Sogamoso. – **L.P.**: Dir. Gen.: J. C. Medina.
126) **Pregones del Quindio**, Calle 19 No. 14–42, Armenia. –
127) **R. Sincelejo**, Plaza Olaya Herrera, Sincelejo.
128) **Armonias del Palmar**, Calle 29 No. 29–67 y 29–73, Palmira.
129) **La Voz del Espinal**, Espinal. – **L.P.**: Dir. Gen.: A. Useche R.
130) **R. Centinela**, Carrera 8a, Edificio Algira, Pereira.
131) **La Voz de la Gran Colombia**, Villa del Rosario.
132) **R. Garzón**, Calle 7a con Carrera 8a., Garzón.
133) **R. Armero**, Armero. – **L.P.**: Dir. Gen.: R. Andrade.
134) **R. Bolivar**, Av. 8a. No. 10–110, Cali.
135) **R. Sevilla**, Carrera 50 entre Calles 49 y 50, Sevilla.
136) **R. Boyaca**, Apt. Nal. 96, Tunja. – **L.P.**: Dir. Gen.: D. Espinosa. **V.** by letter.
137) **Ondas Nacionales**, Cerrito. – **L.P.**: Mgr.: A. Lopez A.

★ ECUADOR ★

L.T.: GMT÷5 h. – **Pr.L.**: Spanish, Quechua. – **Po.**:4.000.000. – **Rcvrs.**: 120.000. – **E.C.**: 110 V., A.C., 60 c/s.

INSPECCION DE RADIO, Ministerio de Obras Publicas, Quito.
ASOCIACION ECUATORIANA DE RADIODIFUSORAS Apt. 1003, Quito.
All stations comm. exc. 38) (Cultural) & 61) (Rel.).

STATIONS: Short Waves: Call: HC---.

	Call	kc/s	m	kW	m.w.	Name and h. of tr.
1)	DR4	3355	89.42	0.25		R. Miramar
2)	MS4	3375	88.89	0.3		R. Alejo Toscano: 05.30–09.30, 00.30–04.00
3)	JP4	3385	88.63	0.25		R. Ondas Manabitas
4)	NL2	3510	84.90	0.2		La Voz del Campesino
5)		3600	83.33	5.0	1010	R. Nac. Espejo, Guayaquil
5)	GR1	3660	81.97	0.3		R. Nac. Espejo, Otavalo
6)	DI4	3945	76.05	0.3		R. Iris
7)	PZ1	3950	75.95	0.2		R. Rumichaca
8)	JG5	3958	75.78	0.2		La Voz de Salcedo
9)	OF4	3960	75.76	0.2		La Voz de Chone
10)	JH1	3965	75.67	0.2		R. Turismo: 11.00–13.00, 17.00–19.00, 23.00–03.00
11)	HV4	3970	75.57	0.2		La Voz del Pueblo
12)	SM6	3975	75.47	0.2	1225	R. Sira
13)	JA5	3990	75.19	0.25		R. Atenas
5)	GB4	3995	75.09	1.0		R. Nac. Espejo, Esmeraldas
14)	LR5	3995	75.09	0.2		La Voz de Alausi
15)	UN2	4025	74.53	0.2		R. Unidad Nacional
16)	AO5	4080	73.53	0.25		La Voz del Tomebamba
17)	HC2	4500	66.67	0.2		R. Emisora Central
18)	AK2	4650	64.52	1.0	1050	R.dif. del Ecuador
5)	GB1	4680	64.10	5.0	1310	R. Nac. Espejo: 24 h.
19)	MX4	4695	63.90	0.2		R. Cenit: 13.00–04.15
20)	ET2	4710	63.78	0.25	1160	R. El Telégrafo: 13.00–04.00
21)	RM2	4725	63.60	0.25		R. Cultural Municipal
22)	IM1	4738	63.32	0.25		La Voz de Imbabura
23)	LJ6	4755	63.10	0.3		La Voz de Bolivar
24)	FA4	4760	63.03	0.25		R. Voz de Manabi: 01.00–03.30
25)	AU2	4765	62.96	5.0	1320	R. Atalaya: 13.00–05.00
26)	LC1	4780	62.76	0.2	1560	R. Atahualpa
27)	AS4	4790	62.63	0.25		La Voz de los Caras
28)	SV5	4805	62.43	0.25		R. Amazonas
29)	LS3	4810	62.37	0.25		R. Coro Santa Cecilia
30)	DC4	4815	62.31	0.25		R. Cenit, Manta: 12.30–14.30, 16.30–20.00, 22.30–04.00
31)	CV3	4850	61.86	0.25		Ondas del Zamora
32)	MJ1	4910	61.10	3.0	1410	R. Gran Colombia: 10.00–13.00, 02.00–06.00
33)	MP2	4920	60.98	0.2		La Voz de la Peninsula
34)	JX6	4920	60.98	0.2		R. Cultural Religiosa
35)	CR1	4930	60.85	1.0	1430	R. Casa de la Cultura: 11.30–13.00, 17.00–19.00, 00.00–03.15
36)	SJ1	4950	60.60	0.2	654	R. Javier
37)		4965	60.42	1.0	1145	R. Ruta, La Voz del Chofer
38)	GH1	4970	60.36	0.3	990	R. Tarqui
39)	JC5	4980	60.25	0.25	1200	Ondas Azuayas: 10.45–04.30
40)	BJ2	5005	59.94	0.25	1220	R. El Mundo: 12.00–03.00
41)	RT1	5010	59.88	0.25	880	R. Católica: 00.00–04.30
42)	CU5	5015	59.82	0.25		La Voz de Azogues
43)	OB5	5028	59.69	0.25		Ondas Azules
44)	PS5	5030	59.64	0.25		Ondas Cañaris
45)	EA5	5045	59.46	0.2	1090	R. Roxi: 13.00–03.00
46)	MV5	5060	59.29	0.25		R. Popular Independiente
47)	RQ1	5125	58.54	0.25	1360	R. Quito: 11.15–04.30
48)	RI1	5170	58.03	0.2		R. Centro Rdfnco., Imbabura
49)		5200	57.70			R. Mercurio, Cuenca
50)	RT6	5580	53.76	0.3	1350	R. Paz y Bien
51)	DF1	5802	51.65	0.2		La Voz del Norte
52)	AR1	5910	50.76	0.2		R. La Voz de Montufar
53)	PRI	5942	50.49	0.25		R. Equinoccial
54)	MH6	5970	50.25	0.3		Rdfnco. de Cotopaxi, Latacunga
55)	GD3	5975	50.21	0.4		R. Fátima
56)	AH3	5985	50.15	0.2		R. Trebol
57)	GY6	5990	50.08	0.3		R. Luz: 12.00–14.00, 17.30–19.30, 22.00–01.00, 02.00–04.00
58)	4EB	6015	49.88	0.25		R. Manta: 12.00–14.00, 17.00–19.00, 23.00–04.00
20)	NF5	6020	49.83	0.25		R. dif. del Ecuador, Cuenca
59)	PT5	6029	49.76	0.25		La Voz del Perp. Socorro
60)	RQ2	6030	49.75	0.2		La Voz del Trópico
61)	JB	6050	49.58	1.0	*)	La Voz de los Andes
62)	AC1	6060	49.50	0.25	1280	La Voz de la Democracia: 11.30–04.00
63)	DG2	6080	49.34	10.0	800	R. Bolivar
64)	LT4	6115	49.06	0.3		R. Costa Azul
5)	XO1	6115	49.06	0.25		R. Nac. Espejo, Otavalo
65)	FB2	6130	48.94	0.25	1140	R. Condor: 10.00–05.00
66)	FK5	6135	48.90	0.25		R. Cuenca
67)	OV5	6140	48.86	1.0		R. Ondas del Volante: 10.00–03.00
68)	DC2	6150	48.78	0.25	1300	R. Cenit
69)	PJ1	6170	48.62	0.2		R. Fluminense
5)		6200	48.39	0.3		R. Nac. Espejo, El Puyo
70)	EH6	6205	48.35	0.25	1550	R. Cosmopolita: 11.30–04.00
71)	MV1	6215	48.27	0.25		R. San Miguel de Ibarra
72)	VM6	6251	48.00	0.2		R. Once de Noviembre
73)	GE5	6255	47.96	0.25	910	R. Mundial: 13.00–04.00
74)	RL2	6633	45.23	0.2		R. Quinta Piedad: 02.00–04.00
75)	JC3	8900	33.70	0.2		R. Fénix
76)	UM2	9550	31.41	0.25	1270	R. Universal
61)	JB	9745	30.78	1/40	*)	La Voz de los Andes
61)	JB	11915	25.18	30	*)	La Voz de los Andes
61)	JB	15115	19.85	1/40	*)	La Voz de los Andes
61)	JB	17890	16.77	30	*)	La Voz de los Andes

*) 700/760 kc/s.

Medium Waves: Call: HC---. °=short wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
36) SJ1	°654		83) CM1	920	0.35	93) CW1	1040	0.3
61) JB1	°700	50.0	84) VL2	925	0.3	18) AK2	°1050	1.0
77) HU2	715		85) GP2	945	0.25	94) VP1	1065	0.3
61) JB1	°760	0.5	86) MC2	955	0.2	95) FD2	1080	0.2
63) DE2	°800	10.0	87) NC1	960	0.25	45) ED5	°1090	0.2
78) CA2	810	0.2	88) EM1	970	0.2	96) BD1	1111	0.25
79) RJ2	830		89) AW2	975	0.3	97) LA2	1115	0.2
80) AJ2	850	0.3	38) GH1	°990	0.3	65) FB2	°1140	0.25
81) EY1	855	0.2	90) FU2	1010	0.2	98) RK1	1142	0.25
41) RP1	°880	0.2	5)	°1010	10.0	37) SC5	°1145	0.25
82) GC2	895	0.3	91) LV1	1020	0.2	5) CX5	°1150	1.0
73) GR5	°910	0.25	92) TO5	1027	0.25	20) ET2	°1160	0.25

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
99) LR1	1180	0.25	68) DC2	°1300	0.25	32) MJ1	°1410	1.0
100) BE2	1190	0.35	5) GB1	°1310	0.3	108) MB2	1425	0.25
39) JE5	°1200	0.25	25) AU2	°1320	0.25	35) BX1	°1430	0.25
101) GU1	1210	0.25	5) PX1	1335	0.5	5) GB6	1430	0.3
40) BJ2	°1220	0.25	50) BB6	°1350	0.3	109) AQ2	1450	0.2
12) NJ6	°1225	0.2	47) RQ1	°1360	0.25	5) GM1	1476	1.0
102) FA1	1245	0.25	104) BX2	1370	0.25	110) VR1	1520	0.3
103) RD2	1250	0.1	105) GR6	1380	0.2	111) HQ6	1520	0.2
76)UM2	°1270	0.25	106) FL2	1400	0.2	70) EH6	°1550	0.25
62) AB1	°1280	0.25	107) BS4	1400		26) LC1	°1560	0.2

Short Waves:

1) Bahia. – **L.P.:** Dir.: W. Delgado.
2) Calle Bolivar 800, Jipijapa. – **V.** by QSL-card or letter.
3) 24 de Mayo C., Sucre. – **L.P.:** Dir. J. Pinargote.
4) Naranjal. – **L.P.:** Dir.: P. Cuadrado.
5) **R. Nacional Espejo** (Cadena Amarillo, Azul y Rojo del Ecuador). – **Addr.:** HCGB1: CalleEsmeraldas 865, Quito. – **L.P.:** Dir.: G. Brborich. – **Stations: M.w.:** HCGM1: R. Reloj, Av. Colombia 330, Quito. HCPX1: R. Victoria, Venezuela 632, Quito. HCCX5: La Voz de Riobamba, Riobamba. HCGB6, R. Nac. Espejo, Ambato. – **V.** by QSL-card.
6) Casilla 142, Esmeraldas. – **L.P.:** Dir.: D. A. Tenorio.
7) Tulcan. **L.P.:** Dir. E. Cabezas. – 8) Salcedo. **L.P.:** Dir. R. Almeida.
9) Chone. **L.P.:** Dir. O. C. Intriago. – 10) Otavalo. **L.P.:** J. A. Viver.
11) Jipijapa. **L.P.:** Dir. H. Vásquez. – 12) Ambato. **L.P.:** J. Mancero.
13) Cuenca. **L.P.:** J. Andrade y Córdero. – 14) Alausi.
15) Guayaquil. – **L.P.:** Dir.: S. Rendón.
16) Apt. 23, Cuenca. – **L.P.:** Dir.: H. Espinosa.
17) Vinces. – 18) Av. Olmedo 111, Guayaquil.
19) Portoviejo. **L.P.:** as 1). – 20) 10 de Agosto 601, Guayaquil.
21) Casilla 695, Machala. **V.** by letter. – 22) Apt. 59, Ibarra. **V.** by QSL-card.
23) Guaranda. – **L.P.:** Dir.: L. Alarcón.
24) Portoviejo. – **L.P.:** Dir. C. C. Cañarte.
25) Rumichaca 930, Guayaquil. – **L.P.:** Dir. V. Paladines.
26) Sucre 251, Quito. – **L.P.:** Dir.: C. Larrea C.
27) Sucre 1922, Bahia. – **L.P.:** Dir.: A. Nevares P.
28) Cuenca. **L.P.:** Dir. A. V. Toral. – 29) Asoc. Juventud Femenina, Loja.
30) Manta. **L.P.:** As 1). – 31) 24 de Mayo, Loja.
32) Casilla 2246, Quito. – **L.P.:** Dir.: E. Cevallos C. – **D.Prgr.:** 1410 kc/s 11.00–06.00. – **N.:** 11.00, 17.50, 03.00. – **ANN.:** "Desde Quito, Relicario de Arte en América, transmiten Emisoras Gran Colombia, 1410 y 4910 kc/s". – **V.** by QSL-card or letter. – **F.Pl.:** 25 kW s.w. in 19 m.b.
33) La Libertad. – **L.P.:** Dir.: M. Pinargote.
34) Baños. **L.P.:** Dir. F. J. Rosario P. – 35) Av. 6 Dic. 332, Quito.
36) Clgio. San Gabriel, Quito. **L.P.:** Dir. P. Urarte. 37) – Riobamba.
38) Plaza del Teatro, Quito. – **L.P.:** Dir.: G. H. León.
39) Apt. 4980, Cuenca. – **L.P.:** Dir. A. Cardoso. – **F.Pl.:** m.w. 5 kW. – **V.** by letter.
40) 9 de Octubre 308, Guayaquil. – **L.P.:** Dir. A. L. de Vergara.
41) Cuenca 937, Quito. – **L.P.:** Dir. Dr. M. Rojas.
42) Consejo Provincial, Azogues.
43) Cuenca. – **L.P.:** Dir. O. Beltrán M.
44) Azogues. – **L.P.:** Dir. H. Vicuña Novillo.
45) Teatro Roxy, Riobamba. – **L.P.:** Dir. E. Abdo.
46) Cuenca. – **L.P.:** Dir. M. Villavicencio.
47) Apt. 57, Quito. – **L.P.:** D. G. Maldonado. Dir. For. Rel.: A. Jarrin M. – **N.:** 5 min. every h. on the h. – **V.** by letter. – **F.Pl.:** 5 kW m.w. & s.w.
48) Ibarra. **L.P.:** Dir. A. Morán M. – 49) Cuenca.
50) Ambato. **L.P.:** Dir. P. Rodriguez. – 51) Ibarra. **L.P.:** Dir. F. Dávila R.
52) Centro Obrero, San Gabriel.
53) Av. Mariano Acosta, Ibarra. – **L.P.:** Dir. A. Terán.
54) Latacunga. – **L.P.:** Dir. C. M. Budonich.
55) Loja. – **L.P.:** Dir. G. Eguiguren.
56) Zaruma. **L.P.:** Dir. E. Guzmán M. – 57) Apt. 240, Ambato.
58) Apt. 4869, Manta. – **L.P.:** Dir. Gen.: E. B. Roggiero. – **N.:** 12.30, 17.00, 23.30. – **Mbg.:** 02.00. – **ANN.:** "Transmite Radio Manta, con sus estaciones..., la mas antigua y potente emisora del puerto. Desde Manta ciudad de turismo y primer puerto maritimo en la Provincia de Manabi". – **V.** by QSL-card or letter. – **F.Pl.:** 5 kW. 59) Cuenca. **L.P.:** Dir. C. M. Salazar. – 60) Quevedo. **L.P.:** Dir. E. P. Salvador.
61) **LA VOZ DE LOS ANDES**
ADDR.: Casilla 691, Quito, Ecuador. Cable: "Vozandes".
L.P.: Pres.: Clarence W. Jones. Field Dir.: Abe C. Van der Puy. Vice-Pres. & Dir.: Robert C. Savage. Dir. English Prgr.'s: Vern Van Hovel. Dir. Russian Prgr.'s: J. Shalanko. Dir. German Prgr.'s: H. Jantz. Dir. Swedish Prgr.'s: Dolores Van der Puy.
HOME SERVICE in Spanish: D. 10.30–04.45.
10.30–11.00 on 700, 760, 6050, 15115 kc/s
11.00–14.00 on 700, 760, 6050, 9745, 11915, 15115 kc/s
14.00–17.00 on 700, 6050, 9745 kc/s
17.00–19.00 on 700, 6050, 9745, 11915, 15115 kc/s
19.00–24.00 on 700, 6050, 9745 kc/s
00.00–02.00 on 700, 6050, 9745, 11915, 15115 kc/s
02.00–04.45 on 700, 6050 kc/s
N.: 11.00, 12.30, 17.30 (W), 20.30, (W) 01.30 (W), 02.30 (W), 04.00. – **"E. by R.":** Tues.–Sat.: 01.40–01.50. – **"Symphony Hour":** Sun. 13.00–14.00. – **Classical Concert:** D. 03.00–04.00.

FOREIGN SERVICE:

English		kc/s	Beamed areas
06.30–10.00[1])	D.	6050, 9745, 11915, 15115	So. Pacific, Eu.
14.00–15.00	D.	15115, 17890*)	Americas
15.00–16.00	Sat.	15115, 17890*)	Americas
19.00–20.30[2])	exc. Mo.	15115, 17890*)	Europe
23.30–24.00[3])	exc. Mo.	15115, 17890*)	W. Indies, Am.
02.00–05.00[4])	exc. Tues.	9745, 11915, 15115	No. & So. Am.

[1]) Sun. to 09.30: "Southern Cross Salute". [2]) "Quito Calling". [3]) "Caribbean Call." [4]) "Ecuadorean Echoes".

French:			
20.30–21.00	exc. Mo.	15115, 17890	Europe
German			
05.30–06.00	exc. Tues.	6050, 9745, 11915, 15115	Europe
15.00–16.00	Sun.	15115, 17890	Europe, Am.
21.00–21.30	exc. Mo.	15115, 17890	Europe
23.00–23.30	exc. Mo.	15115, 17890	Europe
Russian			
03.30–04.30	Tues.	9745, 11915	Europe
05.00–05.30	exc. Tues.	6050, 9745, 11915, 15115	E. Europe
10.00–10.30	D.[1])	6050, 9745, 11915, 15115	So. Pacific, Asia
10.30–11.00	D.	9745, 11915	Asia, So. Am.
16.00–17.00	Sun.	11915, 15115	Euope, Am.
22.30–23.00	exc. Mo.	15115, 17890*)	Americas

[1]) Fri. in Ukrainian.

Spanish			
06.00–06.30	exc. Tues.	6050, 9745, 11915, 15115	Spain, Europe
22.00–22.30	exc. Mo.	15115, 17890*)	Spain, Europe
Swedish			
09.30–10.00	Sun.	6050, 9745, 11915, 15115	So. Pac., Europe
21.30–22.00	exc. Mo.	15115, 17890	Europe

*) may be replaced by 11915 kc/s.

ANN.: E.: "This is fifty thousand watt radio station HCJB located near the line of the equator with studios in the capital city of Quito in the republic of Ecuador. We are serving our international audience on the 19, 25 and 31 meter bands. The time in Quito is... the same as ... GMT. This is radio station HCJB Quito, Ecuador, South America". **V.:** Listeners reports are wanted – these are studied by our engineers. If requested they are answered by QSL-card, in other cases by letter. **PUB.:** Int. prgr. schedule free on request. – **F.PL.:** 50 kW m.w.-tr.; s.w. tr. on 13 m.
62) Apt. 288, Caldas 538, Quito. – **L.P.:** Dir. A. N. Mucarzel.
63) Soc. Distribuidora S. A., Guayaquil.
64) Portoviejo. – **L.P.:** Dir. J. Caballero.
65) Boyacá 1205, Guayaquil. – **L.P.:** Dir. C. A. Molina.
66) Cuenca. **L.P.:** Dir. D. P. Guaricela. – 67) Casilla 726, Azogues. **V.** by letter.
68) 9 de Octubre 608, Guayaquil. – **L.P.:** as 1).
69) Babahoyo. – **L.P.:** Dir. J. P. Salvador.
70) P.O. Box 261, Ambato. – **V.** by letter.
71) Ibarra. – **L.P.:** Dir. R. S. Troya.
72) Latacunga. **L.P.:** Dir. V. H. Muñoz. – 73) Riobamba. **L.P.:** Dir. G. Encalada.
74) T. Martinez 209, Guayaquil. – **L.P.:** Dir. P. Castillo de Levi.
75) Cia. Industrial Financiera, Zaruma.
76) Guayaquil. – **L.P.:** Dir. G. Arroba E. & A. Calero B.

Medium Waves:

77) **La Voz Fraterna,** Sultana de los Andes, Guayaquil.
78) **R. Atalaya,** Milagro. – **L.P.:** Dir. E. M. Collazo.
79) **R. Reloj,** Guayaquil. – **L.P.:** Dir. R. G. Valenzuela.
80) **R. Catolica,** 6 de Marzo 1004, Guayaquil. – **L.P.:** Dir. A. J. Páez.
81) **R. 24 de Mayo,** Benlacazar 753, Quito. – **L.P.:** Dir. E. A. Yépez.
82) **La Voz del Rio Guayas,** Guayaquil. – **L.P.:** Dir. A. Murillo G.
83) **R. Colon,** Colon 1072, Quito. – **L.P.:** Dir. C. Mantilla.
84) **La Voz Liberal,** Guayaquil. – **L.P.:** Dir. A. M. Elinan.
85) **R. Ilesa,** Guayaquil.
86) **La Voz de los Rios,** Babahoyo. – **L.P.:** Dir. C. Baquerizo.
87) **R. Cosmopolita,** Ambato, Quito. – **L.P.:** Dir. N. Castro.
88) **Ondas Carchenses,** Tulcán. – **L.P.:** Dir. A. P. Báez.
89) **Ondas del Pacifico,** Colon 234, Guayaquil. – **L.P.:** Dir. A. Wilmont.
90) **R. Progreso,** 10 de Agosto 970, Guayaquil. – **L.P.:** Dir. C. Ramirez.
91) **La Voz de la Verdad,** Plaza Sto. Domingo, Quito.
92) **La Voz del Pueblo,** Riobamba. – **L.P.:** As 77).
93) **La Voz del Valle,** Machachi. – **L.P.:** Dir. S. Cueva S.
94) **R. Libertad,** Salvador 209, Quito. – **L.P.:** Dir. C. Pesantez.
95) **R. Hollywood,** Velez 534, Guayaquil. – **L.P.:** Dir. G. Enderica.
96) **R. Comercial,** Quito. – **L.P.:** Dir. R. Gavilanes.
97) **R. América,** Luque 910, Guayaquil. – **L.P.:** Dir. L. F. Albán.

98) **R. Noticiero Nacional,** Briceño 345, Quito.
99) **R. Central,** Maldonado Villa 1, Quito. – **L.P.:** Dir. L. R. Zúñiga.
100) **R. Excelsior,** Guayaquil. – **L.P.:** Dir. F. Rodriguez C.
101) **R. Atlántida,** Flores 922, Quito. – **L.P.:** Dir. G. Ulloa.
102) **R. Metropolitana,** Venezuela 624. – **V.** by letter.
103) **La Voz del Litoral,** Junin 206, Guayaquil. – **L.P.:** Dir. E. Willlams.
104) **R. Casa de la Cultura,** Casa de la Cultura Ecuatoriana, Guayaquil.
105) **R. Nuevos Horizontes,** Latacunga. – **L.P.:** Dir. J. G. Leroux.
106) **R. Continental,** Colón 520, Guayaquil. – **L.P.:** Dir. J. F. Ricaurte.
107) **R. Tropical,** Manta. – **L.P.:** Dir. F. Dávalos Venegas.
108) **R. Guayaquil,** Lavallen 222, Guayaquil.
109) **R. Nueva Ortiz,** Esmeraldas 1912, Guayaquil.
110) **R. Cordillera,** Esmeraldas 1712, Apt. 1003, Quito. – **L.P.:** Dir. Ing. Galo Villamar. – **V.** by letter.
111) **R. Continental,** "La Voz de la Sierra Ecuatoriana", Ambato.

★ FALKLAND ISLANDS (British) ★

L.T.: GMT÷4 h. – **Pr.L.:** English. – **Po.:** 2.260. – **Rcvrs.:** 471. – **E.C.:** 400/230 V., AC.

FALKLAND ISLANDS BROADCASTING SERVICE (Go.)
The service is designed primarily for the people of the Falkland Islands, but also the Falkland Island Dependencies, many miles to the south, where there are isolated British Bases in Grahamland the South Shetland and South Orkney Islands.
ADDR.: Broadcasting Studios, Stanley. – **Cable:** Broadcasts. – **L.P.:** Dir.: Ch. T. Reive. Chief Eng.: A. Mercer.
HOME SERVICE: 585 kc/s 513 m – 3958 kc/s 75.79 m – 5/0.5 kW. W.: 22.45(Sat. 21.30)–01.00(Sat. 02.00). Sun. 21.45–01.30.
ANN.: "This is the Falkland Islands Broadcasting Station at Stanley". **V.** by letter. Reports from So. America only.

★ GUIANA (British) ★

L.T.: GMT Æ 3Æ h. – **Pr. L.:** English. – **Po.:** 523.000. – **Rcvrs.:** 34.336. – **E.C.:** 110/220, 400/200 V., A.C., 50 c/s.

BRITISH GUIANA BROADCASTING CO. LTD. (Comm.)
ADDR.: St. Philip's Green, Hight Street, Georgetown. – **Cable:** "Broadcast". – **L.P.:** Mgr.: P. E. M. Hesketh, Sales Mgr.: U. A. Gouveia. Dir. Tec.: E. R. McDowell.
HOME SERVICE: ZFY R. Demerara and **B.G.B.S.**
560 kc/s 536 m 10 kW – 3255 kc/s 92.15 m 2 kW
760 – 395 – 10 kW – 5981 – 50.17 – 2 –
On 560 kc/s: W.: 09.45–16.45, 19.45–02.15, Sun. 10.45–02.15. – **On 760 kc/s:** 09.15 (Sun. 09.45)–02.45 (Sat. 03.45). – **On 3255 kc/s:** 09.45–02.45 (Sat. 03.45). – **On 5981 kc/s:** 09.15 (Sun. 09.45)–19.45.
English: N (BBC): 11.00, 16.00, 20.00, 23.00. **Local:** 09.50 (W), 11.15 (W), 16.10, 20.10 (W), 00.45. – **Mgb.:** 13.15 (W), 20.15. **Wrp.:** D. 00.54. – **Hindustani:** Mo. 00.15, Sat. 21.45, Sun. 09.45, 1.715.
ANN.: On 560 kc/s: "This is B.G.B.S., the British Guiana Broadcasting Service". – On 760, 3255, 5981 kc/s: "This is Radio Demerara, British Guiana". – **V.** by QSL-card.

★ GUIANA (French) ★

L.T.: GMT÷4 h. – **Pr. L.:** French. – **Po.:** 30.000. – **Rcvrs.:** 2000. – **E.C.:** 110 V., A.C., 50 c/s.

RADIO CAYENNE (Go.)
ADDR.: Radiodiffusion Française, Préfecture de la Guyane, Cayenne.
HOME SCE.: 6195 kc/s 48.39 m 1 kW: 10.15–11.00, 16.45–17.45, 23.30–01.00.
ANN.: "Ici Cayenne, Radiodiffusion Française". – **V.** by QSL-card.

★ PARAGUAY ★

L.T.: GMT÷4 h. – **Pr.L.:** Spanish. – **Po.:** 1.700.000. – **Rcvrs.:** 105.000. – **E.C.:** 220 V., A.C., 50 c/s.

ADMINISTRACION NACIONAL DE TELECOMUNICACIONES,
Administracion General, Asuncion (Paraguay), Casilla de Correo No. 84. Cable: "Antelco".
All stations comm. except R. Nacional.
STATIONS: Short Waves: Call: ZP---.

	kc/s	m	kW	m.w.	name	H. of tr.
1) A5	5985	50.13	3	900	R. Encarnación	14.00–18.00
						22.00–04.00
2) A10	6015	49.88	1	1300	R. Paraguay	10.00–12.00
						15.00–17.00
						21.00–24.00
3) A6	9735	30.82	3	1360	R. Guairá	13.00–04.00
4) A3	11850	25.32	1.5	1430	R. Teleco	14.00–24.00
5) A1	11945	25.12	10	920	R. Nacional	11.00–04.00*
6) A7	15210	19.72	1	730	R. Guaraní	14.00–02.00

* under construction.

Medium Waves: ° Short Waves. * under construction.

	Call	kc/s	kW		Call	kc/s	kW
	*	700	10	2)	10	°1300	1.5
6)	7	° 730	1.5	3)	6	°1360	1.5
1)	5	° 900	3	4)	3	°1430	1.0
5)	1	° 920	10	9)	8	1480	0.5
7)	9	970	1,5	10)	13	1570	0.25
8)	11	1200	1.5	11)	15	560	0.25

Short Waves:
1) Encarnación – **D. Prgr.: ZP5:** 11.00–03.00.
2) Av. Dr. G. R. de Francia 115. Asunción. – **L.P.:** Dir. Gen.: G. H. Mora. Dir. Tec.: P. Pereira. – **D. Prgr.: ZP10:** 10.00–03.00. – **V.** by QSL-card. R.p.
3) Villarrica. – **L.P.:** Dir. & Owner, Dir. Tec.: E. Traversi V. – **D. Prgr.:** M.w.: **ZP6:** 13.30–16.30, 21.45–01.00.
4) Av. Gral. Artigas y Bañado. Asunción. – **L.P.:** Dir. Gen.: J. A. Recalde. – **D. Prgr.: ZP3:** 09.00–03.00. – **V.** by QSL-card.
5) Cnel. Martinez 224. Asunción. – **L.P.:** Dir. Gen.: A. Cáceres Almada. Dir. Tec.: P. Pereira. – **D. Prgr.:** M.w.: **ZP1:** 12.00–18.00, 21.00–03.00. (ZPA1 will operate 11.00–04.00, when ready). – **V.** by QSL-card.
6) Independencia Nacional 703, Asunción. – **L.P.:** Dir., Owner, Dir. Tec.: C. M. Saccarello. Dir. Prgr.: M. A. Rodriguez. – **D. Prgr.** M.w.: **ZP7:** 10.00–03.00. – **V.** by letter.
Medium Waves:
7) **R. Comuneros,** Estados Unidos y 9, Asunción. – **D. Prgr.:** 09.00–03.00.
8) **R. Charitas,** L. A. de Herrera 124–140, Asunción. – **D. Prgr.:** 11.00–18.00, 20.00–03.00.
9) **R. Ypir,** Concepción. – **D. Prgr.:** 11.00–17.00, 21.30–02.00.
10) **R. Central,** San Lorenzo. – **D. Prgr.:** 11.00–17.00, 20.00–02.00.
11) **R. La Voz del Amambay,** Pedro J. Caballero. – **D. Prgr.:** 10.30–11.30 14.00–17.00, 22.00–01.00.

★ PERU ★

L.T.: GMT÷5 h. – **Pr.L.:** Spanish. – **Po.:** 9.500.000. – **Rcvrs.:** 1.100.000 – **E.C.:** 220 V., A.C., 60 c/s.
All stations commercial except 14), 20) and 46).

NATIONAL ASSOCIATION OF BROADCASTING STATIONS IN PERU
ADDR.: Avenida Tacna 543, Of. 95, Lima.
STATIONS: Short Waves: [1] inactive. [2] 854/1120 kc/s. [3] Sat. 06.00.

Call	kc/s	m	kW	m.w.	Station	h. of tr.
1) OBX4V	3240	92.59	0.5	1010	R. América	13.00–05.00[3]
2) OAX6E	3290	91.19	0.3	1370	R. Continental	
3) OBX4Y	3300	90.91	0.35	1370	R. Junín	
4) OAX1M	3330	90.09	0.5	890	R. Progreso	
5) OAX5J	3350	89.55	0.3	730	R. Independencia	
6) OAX2G	4770	62.89	0.3	1370	R. Cajamarca	
7) OCX4B[1]	4860	61.73	0.5	1400	R. Callao	
8) OCX4E	4880	61.48	0.75	1160	R. 1160	12.00–05.00
9) OAX5O	5010	59.88	1.0	620	R. Pisco	
10) OAX4P	5955	50.38	0.25		R. Huancayo	
11) OAX7L	5960	50.34	1.0d	1030	La Voz del Altiplano	22.00–05.00
12) OBX4Q	5970	50.21	10.0	900	R. El Sol	12.00–05.00
13) OBX4M	5980	50.17	5.0	960	R. Panamericana	12.00–06.00 (Sun. 13.00–05.00)
14) OAX1W	5990	50.08		1160	R. Nacional, Tumbes	
1) OAX4V	6010	49.92	0.5	1010	R. América	13.00–05.00[3]
15) OAX4Q	6020	49.83	1.0	780	R. Victoria	12.30–05.00[3]
14) OAX8B	6028	49.77		1030	R. Nacional, Iquitos	
16) OAX6B	6035	49.71	0.15	1400	R. Landa	13.00–05.00
17) OAX6A	6042	49.65	0.25		R. Arequipa	23.00–04.00
18) OAX2A	6057	49.53	0.25	1400	R. Trujillo	23.00–04.30
19) OAX4S[1]	6070	49.42	0.3	1030	Onda Popular	12.00–06.00
14) OAX4Z	6082	49.33	40.0	[2]	R. Nacional, Lima	
20) OAX4H	6095	49.22	1.0	1080	R. Mundial	12.30–05.00
14) OAX6F	6105	49.14		1080	R. Nacional, Tacna	
21) OBX4Z	6115	49.06	1.0	590	R. Luz	12.00–05.00
22) OAX7A	6128	48.96	2.5	1470	R. Cuzco	23.00–04.00
23) OAX1A	6150	48.78	0.25	1520	R. Délcar	23.00–04.00
24) OBX4G	6153	48.74	5.0	1360	R. Excelsior	12.00–06.00
25) OCX4G	6160	48.70	1.0	1580	R. Mundo	
26) OAX7C	6175	48.58	0.3	1200	R. Tahuantinsuyo	
27) OBX4P	6180	48.58	0.3	1250	R. Miraflores	13.00–05.00
28) OAX4G	6190	48.47	0.5	1200	R. Lima	12.00–07.00
29) OAX1B	6198	48.40	0.3		R. Piura	12.00–04.30
14) OAX6L	9374	32.00		1080	R. Nacional, Tacna	
30) OAX6H	9505	31.56	0.1		R. Tacna	12.00–04.00
1) OAX4W	9510	31.55	0.5	1010	R. América	as 3240
31) OAX4J	9520	31.51	0.25	1320	R. La Crónica	11.00–06.30
32) OAX4K	9545	31.43	0.3	930	R. Central	12.00–06.00
14) OAX1Z	9550	31.41		1160	R. Nacional, Tumbes	
14) OAX4R	9562	31.37	40.0	[2]	R. Nacional, Lima	
33) OBX4K[1]	9585	31.30	0.3	1130	R. Selecta	
34) OAX8E	9590	31.28	0.2	1380	R. Loreto a)	12.00–05.00
14) OAX8C	9610	31.22	0.3	1030	R. Nacional, Iquitos	
35) OAX8K	9625	31.17	1.0	1490	R. Atlántida	11.00–05.00

Call	kc/s	m	kW	m.w.	Station	h. of tr.
14) OBX4R[1]	11914	25.18	40.0	[2]	R. Nacional, Lima	
14) OAX4T	15150	19.80	50.0	[2]	R. Nacional, Lima b)	
12) OBX4C	15170	19.78	1.0	900	R. El Sol	12.00–05.00
14) OBX4T[1]	21600	13.89	40.0	[2]	R. Nacional, Lima	

a) reported on 9520 kc/s. b) reported on 15130 kc/s.

Medium Waves: °=also Short Waves.

Call	kc/s	kW	Call	kc/s	kW
21) OBX4L	°590	1.0	26) OAX7B	°1200	0.3
9) OAX5P	°620	1.0	28) OAX4B	°1200	1.0
5) OAX5E	°730	1.0	27) OAX4L	°1250	1.5
36) OBX4S	730	1.0	43) OAX4M	1300	1.5
37) OAX1Y	750	0.25	31) OAX4I	°1320	10.0
15) OAX4X	°780	10.0	44) OAX5D	1340	0.3
38) OAX4O	820	10.0	45) OAX1E	1340	1.0
39) OAX2J	820	1.0	24) OAX4Y	°1360	5.0
14) OAX4A	°854	20.0	2) OAX6C	°1370	0.25
4) OAX1D	°890	0.5	6) OAX2D	°1370	0.5
12) OBX4X	°900	10.0	3) OBX4B	°1370	1.0
32) OAX4E	°930	10.0	34) OAX8D	°1380	0.2
13) OAX4D	°960	10.0	7) OBX4W	°1400	1.0
1) OAX4U	°1010	10.0	18) OAX2B	°1400	0.25
19) OBX4O	°1030	1.5	16) OAX6J	°1400	0.3
14) OAX8A	°1030	1.0	46) OBX4I	1435	0.5
11) OAX7N	°1030	0.5	47) OAX3C	1460	0.5
14) OAX6D	°1080	1.0	48) OBX4E	1470	1.0
20) OAX4F	°1080	1.0	22) OAX7G	°1470	0.15
14) OBX4A	°1120	15.0	35) OAX8J	°1490	1.0
33) OAX4N	°1130	1.0	49) OCX4J	1510	0.1
40) OAX7H	1130	0.5	50) OBX4D	1520	0.5
8) OAX4C	°1160	5.0	23) OAX1C	°1520	0.15
14) OAX6K	°1160	1.0	51) OAX8D	1520	0.5
41) OAX2C	1160	0.3	52) OBX4N	1540	0.3
42) OAX3B	1160	0.5	25) OCX4F	°1580	1.0

Short Waves:

1) Cia Peruana, esquina de Montero Rosas y Mariano Carranza, Lima. – **ANN.:** "La Voz del Nuevo Mundo, desde Lima".
2) 3° Piso Teatro Municipal, Arequipa. – **L.P.:** J. A. Umbert F. – **ANN.:** "Emisoras de R. Continental desde Arequipa".
3) Jirón Callao 120, Huancayo.
4) Ca. de Huánuco 484–470, Piura. – 5) Ca. Chiclayo 268, Ica.
6) Cadena Nacional S. A., Cajamarca. – 7) Colón 260, Callao.
8) Casilla 2355, Lima. – **L.P.:** Dir. Gen.: C. Pérez F. Dir. Tec.: J. Seminario. – **INT.-SIG.:** First movements of "Peanut Polka" played by Robert Farnon. – **ANN.:** "En su dial, OAX4C, Radio Once Sesenta, 1160 kc, la frecuencia que Ud. escucha con más frecuencia".
9) Pisco, or Huayna Cápac 1345, Lima.
10) Av. Giráldez 368, Huancayo. – **L.P.:** Dir. Gen.: A. Elejalde G.
11) C. Lima 700, Puno. – **L.P.:** Dir. Gen.: J. Z. Gonzales. Dir. Tec.: R. Laso V. – **N.:** 23.00, 24.00, 02.30. – **Wrp.:** 02.30. Sun. 23.00. – **Nat. Music:** 22.30, 02.00. Sat. 04.00. – **Mbg.:** 04.00 (Fri.), 02.00 (Mo., Sun.). – **Prgr. to Argentina, Bolivia, Chile:** Fri. 04.00–05.00 on 5960 kc/s. – **INT.-SIG.: Home Sce.:** "Cerrito de Huacsapata". – **Foreign Sce.:** "Swedish Rhapsody". – **V.** by QSL-card.
12) Av. Uruguay 355, Lima. – **L.P.:** Dir.: Ing. A. Pereyra.
13) Casilla 4392, Lima. – **L.P.:** Dir.: H. Delgado Parker. Dir. Prgr.: S. Pérez Barreto. Dir. Tec.: M. Flores. – **ANN.:** "Sabe quién trasmite? Radio Panamericana" or "Panamericana, ciudad de Lima". – **V.** by letter.
14) Av. P. Thouars 441, Lima. – **L.P.:** Dir. Gen.: J. Vargas Prada. Sub-Dir.: G. Lazarte. Dir. Tec.: R. Raggio. – **D. PRGR.:** Lima st's: D. 11.45–05.00. **Regional st's** (Iquitos, Tacna, Tumbes): D. 12.00–14.00, 16.00–19.00, 23.00–05.00. – **N.:** 12.00 and from 14.00–01.00 every h. on the h., 02.30, 03.00, 0.400, 04.55. – **Mbg.:** "Estafeta de R. Nacional del Perú": 02.35, Tues., Fri.
ANN.: "Radio Nacional del Perú, la primera emisora del país". – **V.** by QSL-card.
15) Emp. Radiodif. "Victoria", Bajos "Cabaña", Lima. – **INT.-SIG.:** First movements of Beethoven's 5th Symphony.
16) Sucre No. 409, Arequipa. – **V.** by QSL-card.
17) Palacio Viejo No. 106, Arequipa.
18) Almagro No. 349, Trujillo. – **L.P.:** Dir.: J. D. Montaoya. – **ANN.:** "La Vox del Norte del Perú".
19) R. San Cristóbal, Jirón Huallaga No. 515, Lima. – **L.P.:** Dir. Gen.: P. Tello Cadenas. Dir. Tec.: G. Rojas. – **ANN.:** "Onda Popular".
20) Apt. 1098, Lima. – **L.P.:** Dir.: M. Luna. Dir. Tec.: D. Capella R.
21) Av. Tacna 545, 7° Piso, Lima. – **L.P.:** Dir.: W. Rosales Quintas. Dir. Tec.: H. Mirenghi. – **ANN.:** "Radio Luz, la primera emisora del dial". – **V.** by QSL-card.
22) Sappi 601, Cuzco. – **V.** by QSL-card.
23) Casilla 9, Chiclayo. – **L.P.:** Dir. J. C. Montjoy D. – **V.** by letter.
24) Comp. Radiodif. Excelsior, Camaná 975, Lima. – **L.P.:** Dir.: A. Belmont. Dir. Tec.: J.Farfán. – **ANN.:** "Transmite Radio Excelsior, la emisora más criolla del Perú".
25) Av. Giráldez 390, Huancayo. – **L.P.:** Dir.: M. H. Gálvez.
26) Portal Comercio 165, Cuzco. – **L.P.:** Dir.: R. M. Espejo.
27) Av. Larco No 760, Miraflores.
28) Av. Nicolás de Piérola No. 462, Lima. – **L.P.:** Dir.: O. D. Samanez. Dir. Tec.: W. Croff.
29) Casilla 149, Piura. – **L.P.:** Dir.: J. C. Montroy. – **V.** by letter.
30) Aniceto Ibarra 436, Tacna. – **V.** by letter. – 31) Av. Tacna 655, Lima.
32) Casilla 1427, Lima. – **L.P.:** Dir.: G. D. Brandt, J. G. Bresani, M. G. de Rivero. Dir. Tec.: A. González A. – **ANN.:** "En su receptor y en todas partes, Radio Central, la emisora más popular".
33) Colmena Izquierda No. 214, Lima. – **L.P.:** Dir.: J. C. Andrade. **ANN.:** "Esta es OAX4N y OBX4K, Radio Selecta de Lima, una emisora al servicio de la cultura musical del país".
34) Arica Nos. 28–30, Casilla 174, Iquitos. – **ANN.:** "Radio Loreto, La Voz del Oriente Peruano". – **V.** by QSL-card.
35) Libertador San Martín No. 126, Iquitos. – **L.P.:** Dir. J. Reátegui B. – **V.** by letter.

Medium Waves: D. Prgr.: approx. 12.00–06.00.

36) **R. Nuevo Mundo,** Pocitos 278, Martín de Porres, Lima. Dir.: M. Paz. Dir. Tec.: A. Ruiz. – **D. DRGR.:** 12.00–06.00.
37) **R. Piura,** piura or Sáenz Peña 392, Chiclayo.
38) **R. Libertad,** Casilla 2391, Lima.
39) **R. Pizarro,** Pizarro No. 525, Trujillo. – 40) **R. Puno,** Puno.
41) **R. Libertad,** B. 437, Trujillo.
42) **R. Huaraz,** Huaraz. – 43) **R. Atalaya,** Camaná 975, Lima.
44) **R. Chincha,** Los Angeles 328, Chincha. – 45) **R. Chiclayo,** Chiclayo.
46) **R. Santa Rosa,** Apt. 3758, Lima.
47) **R. Huanuco,** Huánuco.
48) **R. Inca,** Av. Wilson 1191, Lima. – **D. Prgr** : 11.00–06.00. **Japanese:** "La hora radial japonesa": D. 14.00–15.00, 18,30–20.00, 02.00–03.00. – **ANN.:** "Dondequiera que Ud. vaya, ahí estará Radio Inca del Perú".
49) **R. Tarma,** Huaraz 198, Tarma. – **L.P.:** Dir.: N. Monteverde.
50) **R. Reloj,** Ocoña 484, Lima. – 51) **R. Iquitos,** R. Loreto S. A.,
52) **R. Corporación,** Jirón Lima 169, Cerro de Pasco.

★ SURINAM (Dutch Guiana) ★

L.T.: GMT÷3½ h. – **Pr.L.:** Dutch, English, Hindustani, Javanese. – **Po.:** 221.000. – **Rcvrs.:** 12.000. – **E.C.:** 125 V., A.C., 50 c/s.

ALGEMEENE VEREENIGING RADIO OMROEP (Comm.)
ADDR.: A.V.R.O.S., Cultuurtuinlaan, P.O. Box 720, Paramaribo.
HOME SCE.:

1035 kc/s	291.0 m	0.35 kW:		09.30–02.30
3395 –	88.00 –	0.35	– :	21.30–02.30
4852 –	62.00 –	1	– :	09.30–21.30
15405 –	19.48 –	1	– :	21.30–02.30

N. in Dutch: 09.50, 13.30, 16.30, 17.15, 22.30, 02.15. – **N. in Surinam language** (talkie talkie): 15.30, 23.30. – **N. in Hindi:** 19.20.
FOREIGN SERVICE: On 1035/3395/15405 kc/s:
Tues. 01.30–02.00: "Surinam calls the Caribbean" with **N. in English & Spanish,** a prgr. under the auspices of the gouvernment information service. – **ANN.: Sp.:** "Esta es Radio Surinam, la AVROS, en Paramaribo, capital de Surinam, uno de sus vecinos en la America del Sur". **V.** by letter.

RADIO APINTIE (Comm.)
ADDR.: P.O. Box 352, Paramaribo. – **L.P.:** Dir. Gen.: E. Vervuurt. Dir. Prgr.: A. Kamperveen. Dir. Tec.: L. de Freitas.
HOME SCE. in Dutch and talkie-talkie:
840 kc/s 355 m 1 kW: 09.30–02.30
N.: 09.40, 13.30, 17.15, 22.30, 01.15.
ANN.: "Radio Apintie, Paramaribo". – **V.** by letter.

★ URUGUAY ★

L.T.: GMT÷3 h. – **Pr. L.:** Spanish. – **Po.:** 3.000.000. – **Rcvrs.:** 400.000. – **E.C.:** 220 V, A.C., 50 c/s.

ASOCIACION NACIONAL DE BROADCASTERS URUGUAYOS (A.N.D.E.B.U.)
ADDR.: Uruguay 1218, Montevideo. – **L.P.:** Pres.: Juan E. De Feo. Sec.: Juan U. Pierri.
All st. privat comm. exc. 3), 5), 11), 14), 36), 37) Go.
STATIONS Short Waves: Call: CX–––. *) inactive.

Call	kc/s	m	kW	m.w.	Name and h. of tr.
1) A2	6000	50.00	5.0	1170	R. Sur: 10.00–03.00
2) A30	6035	49.71	1.0	1130	R. Nacional: 15.00–03.00
3) A53	6055	49.55	5.0		La Voz de Melo: 10.00–03.00
4) A3	6075	49.38	2.5	730	R. Ariel: 10.00–03.00
4a) A73	6115	49.55	5.0	580	R. Clain: 12.00–01.00
5) A4	6125	48.98	10.0	**	S.O.D.R.E.: 13.00–03.10
7) A20	6140	48.86	2.5	930	R. Monte Carlo: 10.00–03.00
8) A13	6155	48.74	10.0	850	R. Carve: 14.00–18.00, 22.00–03.00
9) A21	6170	48.62	1.0	1330	R. Fenix: 14.00–16.00, 21.00–01.00
10) A71	9515	31.53	10.0	690	R. Sarandi: 12.00–20.00.
7) A72	9595	31.27	10.0	930	R. Monte Carlo: 14.00–19.00.
5) A6	9620	31.19	20.0	**	S.O.D.R.E.: 12.00–03.10

Uruguay – Venezuela

Call	kc/s	m	kW	m.w.	Name and h. of tr.
11) A8	9640	31.12	3.0		R. Real de S. Carlos: 15.00–17.00, 20.00–01.00
12) A7	11735	25.56	5.0	770	R. Oriental: 11.00–15.00, 20.00–02.00
13) A19	11835	25.35	5.0	810	El Espectador: 10.55–03.00
10) A68	11885	25.24	25.0	690	R. Sarandi 02.00–04.00
5) A10	11900	25.21	20.0	**	S.O.D.R.E.: 22.30–03.10
5) A55	11965	25.07	10.0	**	S.O.D.R.E. 03.00–05.00
14) A64	15225	19.70	25.0	1340	La Voz de Melo: 01.00–03.00
10) A60	15385	19.49	25.0	690	R. Sarandi: 00.00–02.00
15) A57	17715	16.93	10.0		Serv. de Transm.: 14.00–17.00
15) A54	17835	16.77	25.0		Serv. de Transm.: 23.00–01.00
15) A65	25855	11.61	10.0		Serv. de Transm.: 12.00–22.00

** 650/1050/1290 kc/s.

Medium Waves: ° short wave.

Call	kc/s	kW	Call	kc/s	kW	Call	kc/s	kW
16) CW1	550	4.5	2) CX30	°1130	5.0	3) CX46	°1450	1.5
4a) CW3	580	0.5/0.3	1) CX32	°1170	10/5	36) CW46	1460	0.25
17) CX4	610	5.0	23) CW33	1200	0.25	37) CW46C	1460	0.03
5) CX6	°650	50.0	24) CX34	1210	2.5	38) CW47	1470	0.3
18) CW27	680	1.0	25) CW35	1240	2.0	39) CW43B	1480	1.0
10) CX8	°690	10/5	26) CX36	1250	3/1	40) CX48	1490	5.0
4) CX10	°730	5.0	13) CW37	1260	1.0	41) CW47A	1510	0.1
12) CX12	°770	25.0	5) CX38	°1290	20.0	42) CW47B	1510	0.1
13) CX14	°810	25.0	27) CW39	1320	0.5	43) CX50	1530	0.5
19) CW23	820	1.0	9) CX40	°1330	1.0	44) CW50	1550	0.25
8) CX16	°850	50.0	28) CW53	1340	2.5	45) CW51	1560	0.5
13) CX18	°890	10/5	29) CW41	1360	0.5	46) CW52	1570	0.25
7) CX20	°930	5.0	30) CX42	1370	1.0	47) CW19	1580	0.25
20) CX22	970	1.0	31) CW45	1390	0.25	48) CW54	1580	0.25
8) CX24	°1010	2.5	32) CW46A	1400	10.0	49) CW56	1600	0.25
5) CX26	°1050	20.0	33) CX44	1410	5.0	50) CW57	1600	0.1
21) CX28	1090	10.0	34) CW43	1420	0.5			
22) CW31	1120	2.0	35) CW25	1430	1.0			

Short Waves:

1) Comp. Urug. de Publicidad, Yi 1383, Montevideo.
2) O.R.O.S.A., Plaza Independencia 846, Montevideo. – **V.** by QSL-card.
3) Ministerio de Ganaderia y Agricultura, 25 de Mayo 385, Montevideo. (Servicio de Informacion y Prensa).
4) 18 de Julio 1460, Montevideo. – **L.P.:** Dir.: H. León. – **V.** by QSL-card.
4a) **R. Clarin,** Colonia 1487, Montevideo. – **D. Prgr.:** 11.00–03.00.
5) Mercedes 823, Montevideo. – **Cable:** "SODRE". – **D. Prgr.:** CX6/CX26: 12.00–03.10. CX38: 21.00–03.00. – **N.:** 13.00, 15.00, 20.00, 24.00, 02.55. – **ANN.:** "Servicio Oficial de Difusion Radio Electrica Montevideo con sus emisoras..." – **INT.-SIG.:** First movements of "Campo". – **V.** by QSL-card.
6) Bulevar Artigas 1515, Montevideo. Rel. R. Sarandi 10.40–20.30 (Sat. & Sun. 02.00).
7) 18 de Julio 1224, Montevideo. – **L.P.:** Dir. Gen.: H. Romay S. Mgr.: D. Romay. Dir. Prgr.: J. J. Betancor. Dir. Tec.: I. Beltrami. – **D. Prgr.:** 930 kc/s: 10.00–04.00.
8) Mercedes 973, Montevideo. – **Cable:** "SADREP". – **V.** by QSL-card.
9) Rio Branco 1366, Montevideo. – **L.P.:** Dir.: J. J. Rabassa. – **D. Prgr.:** CX40: 10.00–05.00 (Sat. 06.00).
10) Corporacion de Publicidad S.A., Bulevar Artigas 1515, Montevideo. – **D. Prgr.:** CX8:10.45–03.00. CXA60: Mo.-Fri. 21.00–01.00. – **V.** by letter.
11) Gral Flores 30, Colonia.
12) Olimar 1364, Montevideo. – **L.P.:** Dir.: L. A. Artola. – **D. Prgr.:** CX12: 11.00 (Sun. 12.00)–02.00.
13) Difusoras del Uruguay S.A., 18 de Julio 1393, Montevideo. – **D. Prgr.:** CX14: 09.58–03.00; **R. Libertad Sport:** 10.50–03.00; CW37 **Difusora Rochense,** Dr. Julian Graña 119, Rocha: 11.00–01.00 (Sat. & Sun. 03.00).
14) **La Voz de Melo,** Montevideo 721, Melo. – **D. Prgr.:** 11.00–03.00.
15) Servicio de Transmisiones, Montevideo.

Medium Waves:

16) **R. Popular,** A. Mendez 164, Colonia. – **D. Prgr.:** 09.45–05.00 (Fri. 06.00, Sat. 09.00).
17) **R. Rural,** Diario Rural S.A., 18 de Julio 1513, Montevideo. – **D. Prgr.:** 09.58–03.00 (Sun. 06.00).
18) **R. Tabare,** Uruguay 678, Salto. – **D. Prgr.:** 10.00–03.00.
19) **R. Cultural,** Lavalleja 42–48, Salto. – **D. Prgr.:** 10.00 (Sun. 10.30)–03.00.
20) **R. Universal,** Soriano 1217, Montevideo. – **L.P.:** Dir.: H. Hnos. – **D. Prgr.:** 10.00–03.00 (Sat. 05.00).
21) **R. Imparcial,** Av. Agraciada 1708, Montevideo. – **L.P.:** Dir.: W. Figueira M. – **D. Prgr.:** 24 h. – **V.** by QSL-card.
22) **R. Salto,** Brazil esq. Amorin, Salto. – **D. Prgr.:** 11.00–03.00.
23) **Difusora Florida,** Callinal 696, Florida. – **D. Prgr.:** 13.00 (Sun. 12.30)–02.00.
24) **R. Artigas,** Av. Millán 2370, Montevideo. – **D. Prgr.:** 12.30–02.30.
25) **Paysandu Broadcasting,** 18 Julio 1044, Paysandu. – **D. Prgr.:** 11.00–03.00.
26) **Broadcasting Centenario del Uruguay,** Olimar 1364, Montevideo. – **L.P.:** Dir. Gen.: J. L. Rubio. – **D. Prgr.:** D. 10.00-03.00 (Sat. 04.30). – **V.** by QSL-card. – **F.PL.:** S.w. tr., FM, increase powers.
27) **La Voz de Paysandu,** 18 de Julio 614, Paysandú. – **L.P.:** Dir.: M. A. Penna. – **D. Prgr.:** 11.00–03.00.
29) **Broadcasting San José,** Treinta y Tres 890, San José. – **D. Prgr.:** 13.00–02.00.
30) **R. del Pueblo,** Mercedes 1805, Montevideo. – **L.P.:** Dir.: H. Vernazza. – **D. Prgr.:** 11.15–03.00.
31) **Difusora Treinta y Tres,** Pablo Zufriategui 230, Treinta y Tres. – **D. Prgr.:** 10.50–03.00.
32) **Dif. Zorilla de San Martin,** 18 de Julio 310, Tacuarembó. – **L.P.:** Dir.: L. S. Dini. – **D. Prgr.:** 09.56–02.00. – **V.** by QSL-card.
33) **R. Solis,** 18 de Julio 965, 2° piso, Montevideo. – **L.P.:** Dir.: C. M. Uriste B. – **D. Prgr.:** 11.55 (Sun. 11.25)–02.00.
34) **R. Lavalleja,** José E. Rodó 530, Minas. – **D. Prgr.:** 12.55–02.00.
35) **R. Durazno,** 18 de Julio 592, Durazno. – **D. Prgr.:** 14.00–00.30.
36) **Liceo de Dolores,** Dolores, Soriano. – **D. Prgr.:** irregular.
37) **Liceo de San Carlos,** San Carlos, Maldonado. – **D. Prgr.:** 21.00–24.00 (Sun. 10.00–13.00).
38) **R. Montevideo,** Rio Branco 1366, Montevideo. – **L.P.:** Dir.: J. J. Rabassa. – **D. Prgr.:** 11.00–02.00.
39) **R. Internacional,** Sarandi 792, Rivera. – **L.P.:** Dir.: W. Figueira M. – **D. Prgr.:** 10.30–02.00 (Sat. 05.00).
40) **R. Feminina,** 18 de Julio 1333, Montevideo. – **D. Prgr.:** 13.00–01.45.
41) **R. Welcome,** 25 de Mayo 637, San José. – **D. Prgr.:** 23.30–03.00.
42) **R. Berna,** Artigas 629, San José. – **D. Prgr.:** 10.00–16.30, 18.00–23.30.
43) **R. Independencia,** Paysandu 1186, Montevideo. – **L.P.:** Dir.: J. M. Olaondo. – **D. Prgr.:** 11.00–03.00.
44) **R. Carmelo,** 19 de Abril 444, Carmelo. – **D. Prgr.:** 11.00–03.00.
45) **R. Maldonado,** Isla de Gorriti 819, Maldonado (or 18 de Julio 1561, Montevideo). – **D. Prgr.:** 12.00–02.00.
46) **R. Litoral,** España 1157, Fray Bentos. – **L.P.:** Dir.: G. Arizti. – **D. Prgr.:** 12.00–02.00.
47) **R. Charrua,** Ituzaingó 574, Rivera. – **D. Prgr.:** 10.30–17.00, 20.00–00.30.
48) **Emisora del Este,** Domingo Perez 491, Minas. – **L.P.:** Dir.: C. R. Falco. – **D. Prgr.:** 10.00–02.00.
49) **Difusora Soriano,** Florida 568, Mercedes, Soriano. – **D. Prgr.:** 10.00–03.00.

★ VENEZUELA ★

L.T.: GMT÷4½ h. – **Pr. L.:** Spanish. – **Po.:** 6.000.000. – **Revrs.:** 260.000. – **E.C.:** 110/220 V. A.C., 50 c/s.

MINISTERIO DE COMMUNICACIONES. Direccion de Telecomunicaciones,
Division Internacional y Tecnica, Caracas.
Camara Venezolana de la Industria de la Radio y Television, Apt. de Correos 3155. – **Cable:** Camrado, Caracas.
All stations comm. exc. YVKO (Go.) and YVMI (Rel.)
STATIONS: Short Waves: Call: YV---. *) = inactive.

Call	kc/s	m	kW	m.w.	Name	h. of tr.
1) QG	2360	127.1	1	670	R. Carupano	10.30–03.30
2) LG	2440	122.9	1	660	R. Girardot	10.30–02.30
3) MU	2470	121.5	1	1140	R. Carora	10.30–02.30
4) MK	2480	121.0	1	1180	R. Cabimas	10.30–03.30
5) KT	3245	92.45	1	880	R. Libertador	10.30–04.30
6) QL	3255	92.17	0.5	1010	La Voz del Tigre	11.30–03.30
7) OC	3265	91.87	1	780	Ecos del Torbes	10.30–03.30
8) MC	3275	91.60	1	1150	R. Mara	10.30–03.30
9) LE	3285	91.32	1	1290	R. Puerto Cabello	10.30–02.30
10) OG	3295	91.10	0.7	1420	R. Trujillo	11.00–02.30
11) KX	3305	90.77	3	710	La Voz de la Patria	10.30–03.30
12) LI	3315	90.50	1	930	R. Maracay	11.30–03.30
13) RA	3325	90.22	0.6	960	R. Monagas	11.30–03.30
14) QC	3335	89.95	1	1030	Ecos del Orinoco	10.25–02.30
15) KP	3345	89.68	2	1160	R. Tropical	10.30–03.30
16) LC	3355	89.41	1	850	R. Valencia	10.30–03.30
17) MI	3375	88.89	0.6	1400	La Voz de la Fe	11.30–02.30
18) QI	3385	88.63	1	1080	Emisoras Unidas	11.30–03.30
19) OJ	3395	88.37	1	1450	R. Universidad	11.30–03.30
20) KV	4760	63.03	0.5	1070	Emisora Vargas	10.30–03.30
21) MW	4770	62.89	0.3	1460	Ondas del Caribe	11.30–03.30
22) LA	4780	62.76	1	690	La Voz de Carabobo	10.30–03.30
23) QN	4790	62.63	5	650	Ondas Portenas	10.00–03.30
24) ME	4800	62.50	7.5	1120	Ondas del Lago	10.30–03.15
25) MG	4810	62.37	1	700	R. Popular	10.30–03.30
26) RC	4820	62.24	1		La Voz de Apure	11.30–02.30
27) OA	4830	62.11	5	1000	La Voz del Tachira	10.30–03.30
28) OI	4840	61.98	1	1230	R. Valera	11.30–03.30
29) MS	4850	61.86	1	1090	R. Universo	10.30–03.30
30) PA	4860	61.73	1		R. Yaracuy	10.30–03.30
31) KF	4880	61.48	7.5	950	Ondas Populares	10.30–03.30

	Call	kc/s	m	kW	m.w.	Name	h. of tr.
32)	KB	4890	61.35	5	700	R.dif. Venezuela	10.30–04.30
33)	QE	4900	61.22	1	850	R. Bolivar	10.30–03.30
34)	KR	4920	60.90	7.5	750	R. Caracas	10.30–05.30
35)	MD	4940	60.73	2	1230	R.dif. Occidental	10.30–03.30
36)	MM	4950	60.60	1	1210	R. Coro	10.30–03.30
37)	QA	4950	60.48	1	1220	R. Sucre	10.30–03.30
38)	LK	4970	60.36	10	1020	R. Rumbos	24 h.
39)	MQ	4990	60.12	15	630	R. Barquisimeto	10.30–03.30
41)	NK	5020	59.76		840	R. Cronos	15.30–18.30
							21.30–02.30
42)	KM	5030	59.64	10	590	R. Continente	10.30–04.30
43)	MA	5040	59.55	1	830	Ecos del Zulia	10.30–04.30
44)	KD	5050	59.41	5	1000	R. Cultura	10.30–03.30
40)	KO	*6170	48.62	3	630	R.dif. Nacional	
39)	XJ	9510	31.55	15	630	R. Barquisimeto	10.30–03.30
**)	MZ	9530	31.48	1		Various tr.	10.30–03.30
***)	OM	9570	31.35	1		Various tr.	10.30–03.30
40)	SC	9510	31.12	10	630	R.dif. Nacional	10.30–03.30
45)	OZ	9570	31.02	0.5	930	R. Nidaos	24 h.

) common freq. for 25), 43) 55). *) common freq. for 7), 27).

Medium Waves: Call: YV---. °)=short wave.

	Call	kc/s	kW		Call	kc/s	kW		Call	kc/s	kW
38)	LX	°560	50	31)	KG	°950	5	63)	QV	1170	2
42)	KL	°590	20	13)	RB	°950	1	4)	ML	°1180	1
40)	KA	°630	10	53)	ND	970	5	64)	RE	1190	0.25
23)	QO	°650	10	45)	NZ	°980	0.5	65)	QQ	1190	0.25
2)	LH	°650	1	54)	LR	990	1	36)	MN	°1210	1
1)	QT	°670	0.25	27)	OB	°1000	10	37)	QB	°1220	0.25
39)	MR	°680	15	55)	NM	1000	1	28)	OH	°1230	0.25
22)	LB	°690	1	6)	MQ	°1010	0.5	66)	OL	1240	2
25)	MH	°700	10	38)	LL	°1020	10*	67)	LQ	1240	1
12)	KY	°710	1	56)	NZ	1030	0.3	35)	MP	°1280	2
46)	QR	720	1	14)	QO	°1030	1	9)	LF	°1290	1
47)	NP	730	1	57)	ON	1040	1	68)	KH	1300	1
34)	KS	°750	10	58)	LN	1050	0.3	69)	QY	1310	0.6
7)	OD	°780	10	20)	KW	°1070	1	70)	OE	1320	1
32)	KC	°790	5	59)	NG	1070	1	71)	QU	1340	0.1
43)	MB	°800	20	18)	QI	°1080	0.25	72)	NH	1350	0.5
48)	LP	810	10	29)	NT	°1090	10	73)	LO	1370	1
49)	LT	830		44)	KE	°1100	5	74)	QZ	1390	0.2
50)	MY	840	1	60)	NN	1110	1	17)	MJ	°1400	0.6
16)	LD	°850	10	24)	MF	°1120	10	10)	OF	°1420	0.5
33)	QF	°850	1	61)	NA	1130	0.3	75)	NJ	1430	0.5
5)	KU	°880	1	3)	MU	°1140		76)	FR	1440	0.5
51)	LW	890	1	62)	TD	1140	1	19)	OJ	°1450	1
52)	QX	910	1	8)	MO	°1150	1	21	MV	°1460	1
12)	LJ	°930	1	16)	KQ	°1160	1	77)		1490	0.5

*) SSB (Single Side Band) 03.45–04.30.

St. 6), 29), 54), 56), 65) belong to 42) Circuito R. Continente.

Short Wave:

1) Carupano. – L.P.: Dir. R. Arreaza A. – 2) C. A. R. Girardot, Maracay.
3) Carora. – L.P.: Dir.: C. J. González.
4) Calle Democracia, Cabimas. – V. by letter.
5) Provenca Propagandistas Venezoelanos, Caracas. – D. Prgr.: English: 22.30–24.00. – V. by letter.
6) El Tigre. – L.P.: Dir.: C. Poleo.
7) Calle 9–55, Apt. 152, S. Cristobal. – L.P.: Dir.: G. Gonzales L.
8) Apt. 100, Maracaibo. – 9) Apt. 4, Puerto Cabello.
10) Calle Independencia 200, Trujillo. – L.P.: Dir. P. Torres.
11) C. A. La Voz de la Patria, Caracas. – V. by letter.
12) Maracay. – L.P.: O.: Armezzano and Vásquez.
13) Apt. 14, Maturin. – L.P.: Dir. L. J. Arreaza A. – V. by letter.
14) Apt. 47, Ci. Bolivar. – V. by letter.
15) San Jacinto 9, Caracas. – V. by QSL-card.
16) Valencia. – L.P.: Dir. M. Aché.
17) Maracaibo. – L.P.: Dir. P. A. Bermudez.
18) Apt. 27, Barcelona. – L.P.: Dir. A. Arreaza A.
19) Apt. 74, Merida. – L.P.: Dir. E. O. Dubuc.
20) La Guaira. – L.P.: Dir. P. Sosa Guzmán. – 21) Punto Fijo.
22) C. A. La Voz de Carabobo, Valencia. – V. by letter.
23) Apt. 4123, Puerto la Cruz. – L.P.: Dir. A. J. Isturiz. – V. by letter.
24) Apt. 261, Maracaibo. – L.P.: Pres. & O.: N. V. Quintero. Vice-Pres.: E. C. de Vale. Secr.: F. Morena. Dir. Tec.: J. D. Reyes. – V. by QSL-card. R.p. – F.PL.: 50 kW m.w. transmitter.
25) Apt. 347, Maracaibo. – V. by QSL-card/letter.
26) Apt. 14, San Fernando de Apure. – L.P.: Dir. R. Cestari.
27) Apt. 37, San Cristobal. – V. by letter.
28) Calle Bolivar 54, Valera. – L.P.: Dir. J. L. Febres G.
29) Apt. 76, Barquisimeto. – V. by letter.
30) C. A. Radio Yaracuy, San Felipe.
31) Edificio Radio Centro, Apt. 587, Caracas. – L.P.: Dir. Gen.: F. Cardona. Dir. Tec.: R. Girardi. – ANN.: "Con su transmisor FM en 92.00 m/s desde Caracas Venezuela cuna del libertador transmite Ondas Popular". –V. by QSL-card.
32) Cipreses a Miracielos 1, Caracas.
33) Ciudad Bolivar. – L.P.: Dir. A. J. Isturiz.
34) Apt. 2057, Caracas. – L.P.: Dir. Gen.: A. Espina. Dir. Tec.: J. M. Coello. – D. Prgr.'s: N.: 13.45, 15.30, 18.15, 01.30. – V. by QSL-card or letter.
35) Apt. 76, Barquisimeto. – V. by letter.
36) Comercio y Monzón 77, Coro. – L.P.: Dir. Gen.: R. Leyba. Dir. Tec.: V. J. Roca. – N.: 12.30, 16.30, 23.30. – Nat. Music: 10.30, 17.00. INT.-SIG.: Opens and closes with the march "Los Tres Colores" and the Nat. Anthem. – V. by letter.
37) Apt. 25, Cumana. – L.P.: Dir. A. Arreaza A. – V. by letter.
38) Apt. 2518, Caracas. – L.P.: Pres.: F. Serrano M. Dir. Com.: N. Colmenares. Dir. Adm.: R. Caviglia. Dir. Art.: A. Rivero. Dir. Tec.: A. Galbis. – D. Prgr.: N.: Every 20 minutes, and 10.30–12.30 and 00.00–00.30. "Disc Jockey": Mo.-Fri. 03.45–04.30. "Noches en Venezuela" (music): 04.30–05.30. Stereophonic transmissions: 03.45–04.30 on 1020 kc/s. – ANN.: "Transmite Radio Rumbos, la emisora de Venezuela". – INT.-SIG.: 3 chime gong and follow. st. ID. – V. by QSL-card. – F.PL.: Tr. in 25 m band.
39) Apt. 576, Barquisimeto. – V. by QSL-card.
40) Llaguna a Ctel. Viejo, Caracas. – V. by QSL-card.
41) Apt. 76, Barquisimeto. – L.P.: Dir. R. A. Segura.
42) Circuito Radio Continente, Apt. 866, Caracas. – L.P.: Pres.: J. F. Rodriguez. – V. by QSL-card.
43) Apt. 37, Maracaibo. – Cable: "Ecoszulia". – L.P.: Pres.: L. Garcia N. Gen. Mgr.: A. Baralt L. – V. by QSL-card.
44) C. A. Radio Cultura, Caracas. – V. by QSL-card.

Medium Waves:

46) R. Cumana, Cumana. – L.P.: as 33) – 47) R. Maracaibo, Maracaibo.
48) R. 810, Valencia. – L.P.: as 13).
49) R. Miranda, Los Teques. – L.P.: Dir. A. Landaeta L.
50) R. Cronos, Apt. 76, Barquisimeto. – L.P.: as 41).
51) R. America, Valencia. – L.P.: Dir. B. A. Heredia.
52) R. Nueva Esparta, Porlamar. – L.P.: as 13).
54) R. Catatumbo, Maracaibo. – L.P.: Dir. M. Portillo.
54) R. Central, Maracay. – 55) R. Moron, Moron.
56) R. Calendario, Calle 96, P. O. Box 789, Maracaibo.
57) R. Los Andes, Mérida.
58) R. Guarico, San Juan los Morros. – L.P.: Dir. J. Gherzi.
59) R. Lagunillas, Lagunillas. – L.P.: Dir. M. Portillo.
60) R. Paraguana, Punto Fijo. – L.P.: Dir. M. Flores V.
61) Ondas de los Médanos, Coro. – L.P.: Dir. M. A. Garcia L.
62) R. Ocumare, Ocumare del Tuy.
63) R. Acarigua, Acarigua.
64) R. Barinas, Barinas. – L.P.: Dir. R. Sosa R.
65) R. Puerto la Cruz. – L.P.: as 13).
66) Ecos de Junin, San Cristobal. – L.P.: Dir. J. R. Cortéz.
67) La Voz de la Victoria. – L.P.: Dir. P. Paiva. M
68) R. Crono Radar, Av. General Paéz, El Paraiso, Caracas.
69) R. Guanare, Guanare. – L.P.: Dir. Z. La Hoz.
70) R. San Cristobal, San Cristobal.
71) R. San Carlos, San Carlos. – L.P.: Dir. R. I. Carcaño.
72) Ondas del Escalante, S. Bárbara del Zulia.
73) R.dif. La Pascua, Calle Real No. 17, Valle de La Pascua.
74) Emisora Eduardo Mendez, Anaco. – L.P.: as 13).
75) R. Progreso, Bachaquero. – L.P.: Dir. R. Valencia F.
76) R. Orituco, Altagracia de Orituco.
77) R. Boconó, Boconó. – L.P.: Dir. R. Lanzetta O.

SHORT WAVE MAGAZINE

(Established 1937)

One of the world's leading Amateur Radio publications covering transmission, reception, operating results, competitive working, design and construction. Regular features include "DX Commentary" and "VHF Bands", outstanding in their fields. Monthly, 56 pages. Subscription 33s. post free. 34 Danish Kr., 5.00 American dollars, 21.45 Swiss francs, 1650 French francs, 20 German Dm., 2885 Italian lire.

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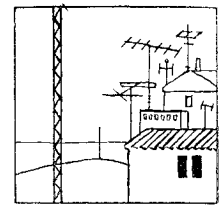
WORLD TELEVISION



The principal television systems:
Definition refers to the broadcasts standard which is normally stated in terms of the number of lines which make up the image. Reference in the following surveys is made throughout merely to 405 lines, 525 lines, 625 lines (CCIR*), 625 lines (Soviet**) and 819 lines respectively.
Details of these five definitions are given in the following table:

	Systems			
Number of lines per picture	405	525	625*)	819
Video bandwidth (mc/s)	3	4	5	10.4
Channelwidth (mc/s)	5	6	7	14
Sound carrier relative to vision carrier (mc/s)	÷3.5	+4.5	+5.5	: 11.15
(Sound carrier relative to edge of channel (mc/s))	0.25	÷0.25	÷0.25	+0.10
Interlace	2/1	2/1	2/1	2/1
Line frequency (c/s)	10.125	15.750	15.625	20.475
Field frequency (c/s)	50	60	50	50
Picture frequency (c/s)	25	30	25	25
Sense of vision modulation	Positive	Negative	Negative	Positive
Level of black as percentage of peak carrier	30	75	75	25
Sound modulation	AM	FM	FM	AM

* The International Radio Consultative Committee.
** The characteristics are the same as 625 lines CCIR exc. for a difference in bandwidth: video bandwidth 6 mc/s, channelwidth 8 mc/s, sound carrier relative to vision carrier +6.5 mc/s.
Differences in Belgian TV from resp. CCIR 625 and French 819:

	CCIR 625	Belgian 625	French 819	Belgian 819
Video bandwidth (mc/s)			10,4	5
Channelwidth (mc/s)			14	7
Sound relative to vision (mc/s)			÷11,15	+5,5
Sound relative to edge of ch. (mc/s)			+0,10	÷0,25
Vision modulation	Negative	Positive		
Level of black as percentage of of peak carrier	75	25		
Sound modulation	FM	AM		

The following pages give you the data of the different TV stations of the world. The channel is indicated by a letter followed by a figure. The letter indicates the technical data of the systems which are in use (A: American, B: British etc.) and the figures is the channel number.
The powers for vision and sound are indicated by a fraction, the numerator indicating the number of kW (ERP) for vision and the denominator for sound, for example 6/1.5 means vision 6 kW ERP and sound 1.5 kW ERP.

TELEVISION CHANNELS

A: American system:
Sound: F.M. Vision: Negative mod.
Number of lines: 525
Picture frequency: 30 c/s
Channelwidth: 6 mc/s.
Video bandwidth 4 mc/s

Channel No.	Vision carrier mc/s	Sound carrier mc/s
A-2	55.25	59.75
A-3	61.25	65.75
A-4	67.25	71.75
A-5	77.25	81.75
A-6	83.25	87.75
A-7	175.25	179.75
A-8	181.25	185.75
A-9	187.25	191.75
A-10	193.25	197.75
A-11	199.25	203.75
A-12	205.25	209.75
A-13	211.25	215.75
A-14	471.25	475.75
A-15	477.25	481.75
A-16	483.25	487.75
A-17	489.25	493.75
A-18	495.25	499.75
A-19	501.25	505.75
A-20	507.25	511.75
A-21	513.25	517.75
A-22	519.25	523.75
A-23	525.25	529.75
A-24	531.25	535.75
A-25	537.25	541.75
A-26	543.25	547.75
A-27	549.25	553.75
A-28	555.25	559.75
A-29	561.25	565.75
A-30	567.25	571.75
A-31	573.25	577.75
A-32	579.25	583.75
A-33	585.25	589.75
A-34	591.25	595.75
A-35	597.25	601.75
A-36	603.25	607.75
A-37	609.25	613.75
A-38	615.25	619.75
A-39	621.25	625.75
A-40	627.25	631.75
A-41	633.25	637.75
A-42	639.25	643.75
A-43	645.25	649.75
A-44	651.25	655.75
A-45	657.25	661.75
A-46	663.25	667.75
A-47	669.25	673.75
A-48	675.25	679.75
A-49	681.25	685.75
A-50	687.25	691.75
A-51	693.25	697.75
A-52	699.25	703.75
A-53	705.25	709.75
A-54	711.25	715.75
A-55	717.25	721.75
A-56	723.25	727.75
A-57	729.25	733.75
A-58	735.25	739.75
A-59	741.25	745.75
A-60	747.25	751.75
A-61	753.25	757.75
A-62	759.25	763.75
A-63	765.25	769.75
A-64	771.25	775.75
A-65	777.25	781.75
A-66	783.25	787.75
A-67	789.25	793.75
A-68	795.25	799.75
A-69	801.25	805.75
A-70	807.25	811.75
A-71	813.25	817.75
A-72	819.25	823.75
A-73	825.25	829.75
A-74	831.25	835.75
A-75	837.25	841.75
A-76	843.25	847.75
A-77	849.25	853.75
A-78	855.25	859.75
A-79	861.25	865.75
A-80	867.25	871.75
A-81	873.25	877.75
A-82	879.25	883.75
A-83	885.25	889.75

B: British standards:
Sound: AM. Vision: Positive modulation. Number of lines: 405. Picture frequency: 25 c/s. Ch-width 5 mc/s. Video bandwidth: 3 mc/s.

Channel	Vision carrier	Sound carrier
B-1	45.00	41.50
B-2	51.75	48.25
B-3	56.75	53.25
B-4	61.75	58.25
B-5	66.75	63.25
B-6	179.75	176.25
B-7	184.75	181.25
B-8	189.75	186.25
B-9	194.75	191.25
B-10	199.75	196.25
B-11	204.75	201.25
B-12	209.75	206.25
B-13	214.75	211.25
F-5	164.00	175.15
F-6	173.40	162.25
F-7	177.15	188.30
F-8	185.25	174.10
F-8A	186.55	175.40
F-9	190.30	201.45
F-10	199.70	188.55
F-11	203.45	214.60
F-12	212.85	201.70

E.: European system:
Sound: FM. Vision: Negative mod. Number of lines: 625. Picture frequency: 25 c/s. Ch. width: 7 mc/s. Video bandwidth 5 mc/s.

E-1	41.25	46.75
E-1A	42.25	46.75
E-2	48.25	53.75
E-2A	49.75	55.25
E-3	55.25	60.75
E-4	62.25	67.75
E-4A	82.25	87.75
E-5	175.25	180.75
E-6	182.25	187.75
E-7	189.25	194.75
E-7A	192.25	197.75
E-8	196.25	201.75
E-8A	201.25	206.75
E-9	203.25	208.75
E-10	210.25	215.75
E-11	217.25	222.75

F: French standards:
Sound: AM. Vision: Positive mod. N. of lines: 819 (ch. Fl.: 441). Picture frequency: 25 c/s. (ch. 1: 7.6 mc, ch. 8: 14 mc).

F-1	46.00	42.00
F-2	52.40	41.25
F-3	56.15	67.30
F-4	65.55	54.40

J: Japanese system:
Sound: FM. Vision: Negative mod. Number of lines: 525. Picture frequency: 25 c/s. Channelwidth: 6 mc/s.

J-1	91.25	95.75
J-2	97.25	101.75
J-3	103.25	107.75
J-4	171.25	175.75
J-5	177.25	181.75
J-6	183.25	187.75
J-7	189.25	193.75
J-8	193.25	197.75
J-9	199.25	203.75
J-10	205.25	209.75
J-11	211.25	215.75

R: Russian system (OIRT channels).
Sound: FM. Vision: Negative mod. Number of lines: 625. Picture frequency: 25 c/s. Ch. width: 8 mc/s. Video bandwidth 6 mc/s.

R-I	49.75	56.25
R-II	59.25	65.75
R-III	77.25	83.75
R-IV	85.25	91.75
R-V	93.25	99.75
R-VI	175.25	181.75
R-VII	183.25	189.75
R-VIII	191.25	197.75
R-IX	199.25	205.75
R-X	207.25	213.75
R-XI	215.25	221.75
R-XII	223.25	227.75

ITALIAN STANDARDS

Sound: FM. Vision: Negative mod. Number of lines 625. Picture frequency: 25 c/s. Channel width: 7 mc/s.

Ch.	Channel limits mc/s			Ch.	Carrier Frequencies Vision-mc/s-Sound		
A	52,5— 59,5	53,75	59,25	E	182,5—189,5	183,75	189,25
B	61,0— 68,0	62,25	67,75	F	191,0—198,0	192,25	197,75
C	81,0— 88,0	82,25	87,75	G	200,0—207,0	201,25	206,75
D	174,0—181,0	175,25	180,75	H	209,0—216,0	210,25	215,75

EUROPE

★ AUSTRIA ★

ÖSTERREICHISCHER RUNDFUNK (Gesellschaft m.b.H.)

ADDR.: Argentinierstrasse 30a, Wien IV, and Television Dept., Singrienergasse 21. Studio: Maxingstr. 13a, Wien XIII. – **L.P.:** Dir. Gen.: Dr. Karl Cejka. Dir. TV: G. Freund. Dir. Tec.: Vice-Dir. Gen.: Dipl. Ing. W. Füchsl.

STATIONS:	ch.	kW			ch.	kW
Jauerling	E2	60/12	H	Gaisberg	E8	60/12
Patscherkofel	E4	60/12	H	Sonnwendstein	E10	1.5/0.3
Schmittenhöhe[1]	E5	0.05/0.01	H	PyramidenkogelE10		30/6
Kahlenberg	E5	60/12	H	Schladming[1]	E11	0.0001/0.0002
Pfänder	E5	80/16	H	Grünberg[1]	E11	0.005/0.001
Linz	E6	3/0.6	H	Polster[1]	E11	1.5/0.3 W.
Schöckl	E7	60/12	H	Kahlenberg	E19[2]	10/2[3]
Baden[1]	E8	10/2W				

Projected stations: Lichtenberg ch. 6 60/12 kW and several 10 w power stations. [1] frequency-changer. [2] temporary ch. [3] testtransm.

D. Prgr.: Mo., Thurs., Wed., Fri. 18.00–20.15. Sat., Sun. 17.30–20.30 approx. Wed., Sun. also 15.00–16.00. –

★ BELGIUM ★

INSTITUT NATIONAL BELGE DE RADIODIFFUSION (Go.)

ADDR.: I.N.R., Place Eugène Flagey 18, Bruxelles. – **Cable:** Teleradio. – **L.P.:** Dir. French TV: Ph. Kammans. Dir. Flemish TV: Vacant.

FRENCH PRGR. Def. 819:				FLEMISH PRGR. Def. 625:			
Stations	**ch.**	**kW**		**Stations**	**ch.**	**kW**	
Liége	3	100/25	H	Antwerp	2	2/0.5	V
Bruxelles (Wavre)	8	100/25	H	Ruiselede	2	100/25	H
Bruxelles (Wavre)	10	100/25	H				

D. Prgr.: Mo.–Fri. 18.00–21.00. Sat., Sun. 13.00–21.00.

★ BULGARIA ★

Sofia ch. R III 0.5/0.25 kW.

★ CZECHOSLOVAKIA ★

CESKOSLOVENSKA TELEVIZE

ADDR.: Ceskoslovenska televize, Jindrisska 16, Praha 3. – **Cable:** Televize, Praha. – **L.P.:** Dir Gen.: M. Hradecky. Mgr.: J. Krecek. Dir. Prgr.: Dr. V. Feldstein. Dir. Tec.: F. Svejkovsky. Dir. Production: I. Brineil. Dir. For. Rel: V. Vysohlid. Dir. Slovak TV (Bratislava): J. Vrabec.

STATIONS: Praha ch. R II 5/3 kW H – Ostrava ch. R II 12/5 kW. Bratislava ch. R III 12/5 kW H – C. Moravia ch. R IX 10/4 kW H. Banska Bystrica ch. R VII 10/4 kW H – **Projected Stations:** Ea. Bohemia ch. R VI 10/4 kW II. We. Bohemia ch. R IV. Kosice ch. R X 10/4 kW H.

★ DENMARK ★

RADIO DENMARK (Go.)

ADDR.: Television Service, Radio Denmark, Radiohuset, Rosenørnsallé, Copenhagen. – **L.P.:** Dir. Prgr.: J. Fr. Lawaetz.

STATIONS: Polarisation V. Channels E.

Copenhagen	ch.	4	10/3	kW	So. Seeland	ch.	6	60/20 kW
Fyn	–	3	10/3	–	W. Jutland	–	10	60/20 –
Ålborg	–	5	10/3	–	So. Jutland	–	7	60/20 –
Århus	–	8	10/3	–				

D. PRGR.: 19.00–20.00. **Childrens Hour:** Mo., Tues., Thurs., Fri. 16.00–16.30. Sat. 17.30–18.00.

Projected Station: Bornholm ch. 5 10/3 (Summer 1960).

★ FINLAND ★

SUOMEN TELEVISIO – FINLANDS TV (Finnish State Radio).

ADDR.: Pasila, Ilmala, Helsinki. – **L.P.:** Dir. Prgrs.: V. Zilliacus.

STATIONS: ch. E Polarisation H.

Helsinki	ch.	6	10/2	kW	Tammela:	ch.	10	0.2/0.05 kW
Kotka	–	5	0.005/0.001	–	Tampere	–	8	0.2/0.05 –
Lahti	–	9	40/8	–	Turku	–	7	45/9 –
Riihimäki	–	11	0.005/0.001	–				

D. PRGR.: Tues., Wed., Thurs., Fri. 10.00–10.30 approx. 3–3½ h. every day approx. 17.00–20.00.

Projected Stations: Hämeenlinna ch. E5 5/1 W., Kouvola ch. A11 5/1 W., Pori ch. A9 0.2/0.05 kW, Rauma ch. A5 0.2/0.05 kW.

Oy Mainos-TV-Reklam Ab:

An independent commercial TV by name TES-TV exists for publicity prgr., using the studios, channels of the Finnish TV. – **L.P.:** P. Hanski. The daily advertising is made only in the beginning and at the end of the programmes.

★ FRANCE ★

RADIODIFFUSION-TELEVISION FRANCAISE

ADDR.: 107, rue de Grenelle, Paris 7;. – **L.P.:** Directeur général: Chr Chavanon. Directeur général adjoint: R. Ergmann. Directeur des Programmes de Télévision: A. Ollivier. Directeur des Informations, de l'Actualité Télévisée et des Emissions Extérieures: R. Thibault. Directeur des Relations Internationales: J. D'Arcy. Adjoint: M. Robida. Chef du Service de l'Exploitation (Radio et Télévision): Claude Mercier.

STATIONS:	ch.	F.	kW/W	STATIONS:	ch.	F.	kW/W
Caen-M. Pinçon	2		20/5H	St. Laurent du			
Limoges	2		20/5H	Pont	8		20/5H
Ajaccio-				Saint-Etienne	8		0.04/0.01H
La Punta	4		0.05/0.12H	Lille	8a		20/5H
Nantes	4		0.05/0.012V	Mulhouse	8		20/5H
Besançon	5		0.003/0.001H	Paris			
Lyon-Fourv.	5		0.1/0.025H	Tour Eiffel	8a		20/5
Toulouse	5		0.5/0.125H	Mezieres-Sury	8a		0.5/0.125V
Reims	5		10/2.5V	Bourges-Neuvy	9		20/5H
Rennes	5		20/5H	Tarare-Bel Air	9		0.003/0.0007H
Strasbourg	5		3/0.75H	La Bourboule	9		0.015/0.004V
Fecamp	6		0.003/0.001H	St. Gervais	9		0.01/0.003H
Clermont	6		10/2.5V	Bordeaux	10		0.5/0.125H
Arcachon	6		0.003/0.001V	Dijon	10		0.5/0.125V
Cannes	6		3/0.75V	Grenoble	10		0.05/0.012H
Chamonix	6		0.003/0.001H	Rouen	10		10/2.5H
Metz-Luttange	6		10/2.5H	Toulon-Sicil	11		0.04/0.01H
Auxerre	6		0.003/0.075H	Amiens-Coisy	11		0.04/0.01V
Sarrequemines	6		0.03/0.01WV	Lourdes	11		0.002/0.0005H
Nancy-Vand.	7		0.05/0.0112V	Nice, St. Albert	11		0.003/0.001V
Voiron	7		0.003/0.001V	Epinal	12		0.04/0.01V
Le Havre	7		0.05/0.012H	Lyon-M. Pilat	12		20/5H
Megeve	7		0.01/0.003V	St. Die, Roche			
Gex	7		0.04/0.01V	S. Martin	12		0.3/0.1W. H
Marseille	8		10/2.5H	Cherbourg	12		0.5/0.125H
Annecy-Espagny	8		0.01/0.003H	Longwy	12		0.04/0.01V

Projected high-power stations: 1959: La Bastide du Haut Mont (Nov.) Lille-Bouvigny (Dec.) – 1960: Le Mans (March). Nantes, replace low power st. (Apr.). Vannes (May). Niort (Sept.). Auxerre replace low power st. (Nov.), and many **satellite st's.**

D.PRGR.: Paris (Prgr.rel. by Dijon, Lille, Lyon, Marseille, Mulhouse, Nancy, Nantes, Rennes, Rouen, Strasbourg:) Sun. 09.00–12.30. 14.30–approx. 22.15. W.: 11.30–12.30, approx. 18.15–approx. 22.15. (Tues. also 15.30–17.35. Sat. also 15.00–18.30).

Radio relay links between: Paris-Lille, **Paris** - Rouen - Le Havre - Caen - Rennes - Nantes. **Paris** - Reims - Metz (- Luttange) - Nancy - Strasbourg - Mulhouse. **Paris** - Perreuse - Dijon - Lyon - Marseille - Cannes. **Lyon** - Clermont Ferrand - Grenoble - Saint Etienne. **Paris** - Perreuse - Bourges - Limoges and Bordeaux - Toulouse - Pic du Midi. Metz - Luxembourg, Dabo - Hornisgrinde (Germany), **Lille** - Cassel - Dover.

★ GERMANY ★

GERMAN FEDERAL REPUBLIC

A common programme is being broadcast throughout Germany under the title "Deutsches Fernsehen". Each of the organizations participates in the production of this prgr. In addition a number of regional broadcasts are transmitted by each of the broadcasting organizations.

Community television prgr. daily approx.: W.: 16.00–17.00, 18.00–21.00. Sun. additionally 11.00–11.30 and longer afternoon-programmes in case of sport-events. Testtransmissions approx.: 09.00–17.00.

ADDR.: Fernseh-Kommission der Arbeitsgemeinschaft der Westdeutschen Rundfunkanstalten, Hessischer Rundfunk, Frankfurt a/M.

BAYERISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Fernsehdirektion des Bayerischen Rundfunks, Rundfunkplatz 1, Funkhaus, München 2. – **Studio:** Floriansmühlstr., München-Freimann. – **L.P.:** Intendant des Bayerischen Rundfunks: Dr. Franz Stadelmeyer. Dir. Television: Dr. Clemens Münster. Dir. Adm.: H. Spies. Dir. Tec.: Dr. F. Daser.

STATIONS:	ch.	E	kW	STATIONS:	ch.	E	kW
Grünten	2		100/20H	Wendelstein	10		100/20H
Kreuzberg	3		100/20V	Würzburg	10		1/0.2H
Ochsenkopf	4		100/20V	Hohenpeissenb.	14		10/2H
Dillberg	6		100/20H				
Low power stations:							
Bad Reichenhall	5		5/1H	Passau	7		20/4V
Eichstätt	5		5/1H	Grassau	7		6/1.2H
Tegernsee	5		2/0.4H	Landshut	7		4/0.8V
Hohe Linie	5		50/10V	Kreuzeck	10		2/0.4V
Bad Berneck	6		1.5/0.3V	Berchtesgaden	11		2/0.4H
Kuhnbach	6		1/0.2V	Füssen	11		2/0.4H
Rauschberg	7		2/0.4V	Neustadt	11		2.5/0.5H

Projected st.: Brotjacklriegel ch.E 7, 100/20 kW. Begin 1960. Moreover numerous satellit st's.

Testtransmissions: 09.00–11.00, 12.00–15.50. Sat. 12.00–15.50.

HESSISCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Bertramstrasse 8, Frankfurt am Main. – **L.P.:** Intendant: E. Beckmann. Dir. Prgr.: Dr. H. J. Lange. Dir. Tec.: Dr.-Ing. F. TV seré. Dir. TV Play and Entertainment: H. O. Grünefeldt. Dir. Mi-Actualities: O. Meitzner. Press: E. R. Richter.

STATIONS: Feldberg ch. 8 100/20 kWH – Meissner ch. 7 100/20 kWH – Biedenkopf ch. 2 20/3 kWH – Marburg ch. 11 30/6 Watt H. Frequency changers: Dillenburg ch. E5 0.75/0.15 Watt H. Bad Orb ch. E10 1/0.2 Watt H. – D.PRGR.: Testtransmissions: Mo.-Sat. 09.00–11.00, 12.00–15.50.

RADIO BREMEN (Anstalt des öffentlichen Rechts)

ADDR.: Heinrich Hertzstr. 13, Bremen. Cable: Radio. – L.P.: Intendant: H. Kerneck. Chefingenieur: A. Olshausen. Fernsehbeauftragter: R. Dumont du Voitel. – STATIONS: Bremen-Stadt ch. E16 10/2 kW – Bremerhaven ch. E5 0.1/0.02 kW – D. PRGR.: Mo. 12.00–15.45. Tues.-Fri. 09.00–11.00, 12.00–15.45. Sat. 09.00–11.00.

NORD- UND WESTDEUTSCHER RUNDFUNKVERBAND

"Gemeinnützige Körperschaft des öffentlichen Rechts": (corporation for public benefit).

Members: Der Norddeutsche Rundfunk, Hamburg; der Westdeutsche Rundfunk, Köln. – Der Nord- und Westdeutsche Rundfunkverband is committed to produce 46% of the German TV program, whereof 23% are to be produced by the NWRV Hamburg and 23% by the NWRV Köln.

L.P.: Geschäftsführer: Dr. Hubrich (Rothenbaumchaussee 132/134. Hamburg).

NWRV HAMBURG: ADDR.: Rothenbaumchaussee 132/134, Hamburg 13. Studios: Hamburg - Lokstedt, Gazellenkamp. – L.P.: Intendant Dr. W. Pleister. Sendeleiter, Leiter des Programmaustausches: Heinz von Plato. Verwaltung: Hans-Joachim Hessling. Chefingenieur: Dr. Walter Schwarz. Leiter der Betriebstechnik: A Westing. Presse und Nachrichten: Klaus Mahlo, Hans Ruppersberg.

NWRV., KOLN: ADDR.: An der Rechtschule 2, Köln. Studios: Funkhaus, Köln. – L.P.: Dir. Produktion: W. Pindter. Chief Editor: K. Mahlo. Adm.: B. Behrendt. Techn. Leiter: Horst A. Krieger.

NORDDEUTSCHER RUNDFUNK-FERNSEHEN

Stations:	ch.E	kW	Stations:	ch.E	kW
Bremen-Oldenburg	2	100/20	Harz	10	100/20
Cuxhaven*	6	0,05/0,01 V	Kiel	5	5/1
Flensburg	4	50/10	Lingen	17	35/7
Hamburg	9	92/18	Lübeck*	7	0,3/0,06 V
Hannover	8	4,3/0,9	Osnabrück*	5	0,06/0,0012
			Braunlage*	8	0.1/0.02 H

* frequency changer.

Projected st.'s.: Hamburg – Billwärder ch. E 18 15/7 kW (exp. tr. only testpattern).

NWRV Hamburg: Testtr.: Mo. 12.00–15.45, Tues.-Fri. 09.00–11.00 & 12.00–15.45, Sat. 09.00–11.00. – Regional Prgr.: W. 17.45–18.30. – Advertising TV: W. 18.30–19.00.

WESTDEUTSCHER RUNDFUNK-FERNSEHEN

Stations:	ch.E	kW	Stations:	ch.E	kW
Aachen	16	3/0,6	Teutoburger Wald	11	100/20
Aachen-Stolberg	14	2/0.4 H	Wuppertal**	6	0,6/0,12
Bonn**	5	0,5/0,1	+45 low power frequ. changers.		
Köln	11	5/1	** Satellite st's.		
Langenberg	9	100/20			

Projected st's.: ch. E: Heide 10 – Bungsberg 15 – Dannenberg 18 – Münster 18 – Cleve 15 – Nordhelle 14 – Aurich 14.

NWRV Köln: Testtr.: W. 09.00–11.00, 12.00–17.00. – Regional Prgr.: D. 17.45 (Sun. 18.00)–18.25. – Advertising TV: W. 18.30–19.00.

COMMON PRGRS.: D. 19.00 (Sun. 18.30)–21.00.

On Sun- and Weekdays at irregular times special transmissions, outside broadcasts etc.

SAARLÄNDISCHES FERNSEH A.G. (Comm.)

ADDR.: Dudweilerstr., Saarbrücken – STATION: Schwarzenberg: Ch. E2 10/2 V. – Rel. SWF.

SENDER FREIES BERLIN (Anstalt des öffentlichen Rechts)

ADDR.: Fernsehen, Reichskanzlerplatz 7–11, Berlin-Charlottenburg 9. – L.P.: Intendant: W. Geerdes. Dir. Prgr.: H. H. Fischer. Dir. Tec.: Dipl. Ing. U. Blässer. – STATION: Berlin-Witzleben ch. 7 50/10 kW. – D. PRGR.: 13.00–21.00.

SÜDDEUTSCHER RUNDFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Süddeutscher Rundfunk Fernsehen, Neckarstr. 145, Stuttgart. – Cable: Südfunk Stuttgart. – L.P.: Fernsehdirektor: Dr. Hans Bausch. Tech. Dir.: Dr. R. Eberhardt. Programmleiter: Dr. H. Jedele. STATIONS: Stattgart ch. E11, 100/20 kW H. – Aalen ch. E8 20/4 kW V. – Pforzheim ch. E5 0.05/0.01 H* – Waldenburg ch. E9 100/20 kW. Projected Station: Heidelberg approx. 100/20, ch. not fixed. More frequency changers. * frequency changer.

SÜDWESTFUNK (Anstalt des öffentlichen Rechts)

ADDR.: Abt. Fernsehen, Hans Bredowstr., Baden-Baden. – L.P.: See Sound Broadcasting. Dir. Prgr.: Dr. K. P. Biltz.

STATIONS:	ch.E	kW		ch.E	kW
Raichberg	4	40/8d.	Baden Baden	7	0.3/0.06d.
Trier	5	0.6/0.12H.	Hornisgr.	9	100/20d.
Koblenz	6	50/10d.	Feldberg	8	100/20d.
K'lautern	7	0.3/0.06d.H.	Weinbiet	10	50/10d.
Zweibrücken	7	0.08/0.016d.H.	Eifel	15	20/4d.H.
Freiburg	7	0.021/0.04[1]d.H.	Haardtkopf	17	200/40H.

+ 54 low power – freq. changers. [1] freq, changer.

D. PRGR.: 16.00–17.00, 18.00–21.00 (Regional prgr.: 18.00–19.00).

GERMAN FEDERAL REPUBLIC

DEUTSCHER FERNSEHFUNK

ADDR.: Deutscher Fernsehfunk, Berlin-Adlershof, Rudower Chaussee 116. Cable: Fernsehfunk Berlin. – L.P.: Intendant: Heinz Adameck. Prgr. Leitung: Willy Zahlbaum. Techn. Leitung: Wolfgang Günter.

STATIONS: Berlin E5 – Brocken E6 – Cottbus E4 – Dresden E 145.25/150.25 mc/s – Helpterberg E3 – Inselberg E5 – Karl-Marx-Stadt E8 – Leipzig E3 – Marlow E8 – Schwerin E11.

D. PRGR. Testtransmissions W.: 12.30–14.00. PRGR's: Mo.-Fri.: 10.00–12.00. – Mo. 15.00–16.30. Tues.-Fri.: 15.00–15.30 (Childrens Hour) – Mo. to Fri.: 17.55–21.00, Sat. 15.00–21.00. Sun, 09.00–10.00, 12.00–13.00, 14.00–21.00.

★ GREAT BRITAIN ★

BRITISH BROADCASTING CORPORATION

The BEC's Television Service is an integral part of the British Broadcasting Corporation.

ADDR.: and – L.P.: See Sound Broadc. Dir. TV.:G. C. Beadle.

Stations	ch. kW	Stations	ch. kW
Divis	B1 12/3 H.	Blaen plwyf. (W. Wales)	B3 2/0.5d.H.
Crystal Palace	B1 200/50 V.	Sandale	B4 16/4d.H.
Thrumster[8])	B1 0.4/0.1[8])V.	Les Platons[6])	B4 1/0.25[2])H.
Holme Moss[3])	B2 100/25[1])V.	Sutton Coldf.	B4 100/25 V.
Dover	B2 0.33/0.08d.V.[4])	Folkstone	B4 0.C07/0.C02d.H.
WhitehawkHill	B2 0.4/0.1 d. V.[5])	Meldrum	B4 17/4.25d.H.
Londonderry (No. Ireland)	B2 1/0.25 d. V.[3])	Wenvoe	B5 100/25 V.
No.HessaryTor	B2 15/3.6d.V.	Pontop Pike	B5 12/3 H.
Rosemarkie	B2 1/0.25d.H.	Douglas (Isle of Man)	B5 2.8/0.7d.V.
Kirk o'Shotts[6])	B3 100/25 V.	Peterborough	B5 1/0.25 H.
Tacdlneston	B3 15/3.6d.H.[7])	Orkneys	B5 0.5/0.1 V.[3])
Rowridge (Isle of Wight)	B3 32/8d.V.		

1) London 2) nr. Huddersfield 3) temporary 4) to be increased to 0.25 kW 5) (C. Scotland) 6) (Channel Islands) 7) Norwich. 8) Brighton 9) No. Ea. Scotland.

D.Prgr.: All Stations: Trade Testtransmissions: Mo.-Sat. 10.00–13.00. Prgr. Hours approx.: Mo.-Fri.: 14.00–15.30, 17.00–23.05. Sat. 13.45–23.00. Sun. 14.00–18.15, 19.00–23.00.

INDEPENDENT TELEVISION AUTHORITY (I.T.A.) (Comm.)

ADDR.: 14, Princes Gate, London S.W.7. – L.P.: Chairman: Sir I. Kirkpatrick, G. C. B., G. C. M. G. Dir.-Gen.: Sir Robert Fraser, O.B.E. Dep. Dir.-Gen.: B. Sendall, C.B.E. Chief Eng.: P.A.T. Bevan, C.B.E., B.Sc., M.I.E.E. (Sen.), M.I.R.E.

STATIONS:	Ch. E.	kW	Area served
Croydon	9 V	120/30	London
Lichfield	8 V	200/50	Midlands area
Winter Hill	9 V	100/25	Norths area
Emley Moor	10 V	200/50	Norths area
Black Hill	10 V	475/120	C. Scotland
St. Hilary	10 V	200/50	S. Wales, W. England
Chillerton Down	11 V	100/25	C. Southern England
Burnhope	8 H	100/25	N.-Ea. England
Mendlesham	11 H	200/50	Ea. Anglia area
Black Mountain	9 H	100/25	Northern Ireland
Dover	10 V	100/25	So.-Ea. England Under construc.

F. PL.: Carlisle and So. We. England (1960/61).

Programme Companies: A.B.C. Television Ltd. – Associated-Rediffusion Ltd. – Associated TeleVision Ltd. – Granada TV Network Ltd. – Scottish Television Ltd. – Independent Television for South Wales & the West of England (T.W.W.) Ltd. – Southern Television Ltd. – Tyne Tees Television Ltd. – Anglia Television Ltd. – Ulster Television Ltd. – Independent Television News Ltd.

D. PRGR.: Mo.-Fri.: 16.45–23.30. Sat. 13.00–23.00. Sun. 13.15–22.30.

★ HOLLAND ★

NEDERLANDSE TELEVISIE STICHTING (Go. – Foundation)

ADDR.: Postbox 80 Bussum. Cable: Televisie Bussum. – L.P.: Vice-Pres.: Mr. A. B. Roosjen. Gen. Secr.: Jhr. Th. Röell. Dir. Fin.: DRS. A. J. J. van der Made. Dir. Pers.: D. Repko. Dir. Prgr.: J. W. Rengelink. Dir. Tec.: A. H. van de Veen.

STATIONS:

Lopik ch. E4 20/5 kW H. – Goes ch. E7 5/1 kW H. – Markelo ch. E7 30/6 kW H. – Irnsum ch. E6 25/5 kW H. – Roermond ch. E5 50/10 kW H. – Smilde ch. E6 50/10 kW.

D.PRGR.: Sun. 19.00–21.30. Mo. 16.00–16.30. Tues. 19.00–21.00. Wed. 16.00–16.30, 19.00–21.30. Thurs.: 19.00–21.15. Fri.: 19.00–20.45. Sat.: 19.00–21.30.

★ HUNGARY ★

MAGYAR RADIO (Go.). ADDR.: Magyar Televizio, V. Szabadsag tér 5, Budapest. – L.P.: Chief TV Dept.: F. Kulcsar. Dir. Prgr.: Dr. Kalmar Kiss. Dir. Tec.: L. Hermann. Dir. Radio and TV Journal: B. Lévai. – **STATION:** Budapest ch. R I 30/10 kW H., Pecs ch. R II 5/1.5 kW. – **Projected station:** Pécs relay Budapest R III 1/0.5 kW. – **D. PRGR.:** Tues., Wed., Thurs., Fri.: 17.45 (Thurs. 18.30, Fri. 19.00)–21.00. Fri. also 09.00–11.00. Prgr. hours will be increased from 1/1 60.

★ ITALY ★

RADIO-TELEVISIONE ITALIANA (State Service granted by public act to R.A.I.)

ADD.: Direzione Centrale TV, via del Babuino 9, Roma. – **L.P.:** Dir. Prgr. TV: Dr. Sergio Pugliese. Dir. Tec. TV: Eng. Sergio Bertolotti. Dep. Dir's. Tec. TV: Eng. L. Sponzilli, Eng. Gino Orsini.

STATIONS: Polarisation: horizontal.

City	Ch.	kW	W	City	ch.	kW	W
Gambarie	D	19/4.8		M. Penice	B	100/25	
Martina Franca	D	220/55		M. Sambuco	H	35/8.5	
Milano	G	24/6		M. San Nicolao	A	40/10	W
M. Argentario	E	2.5/0.7		M. Scuro	G	8/2	
M. Caccia	A	34/8.5		M. Serra	D	270/70	
M. Cammarata	A	35/8.8		M. Soro	E	5/1.2	
M. Conero	E	24/6		M. Venda	D	100/25	
M. Faito	B	40/10		M. Vergine	D	100/25	
M. Favone	H	200/50	W.	Portofino	H	127/32	
M. Lauro	F	50/12.5		Punta Badde Urbara	D	145/36	
M. Limbara	H	3/0.7		Roma	G	36/9	
M. Nerone	A	34/8.5		Torino	C	16/4	
M. Peglia	H	32/8		Trivero	F	160/40	W
M. Pellegrino	H	8/2					

Daily Programmes: W. 14.00–appr. 23.30. Sun.: 09.15–appr. 11.00, 14.30 Sport, 16.30 Children's hour, 17.30 Ne s, 17.45–23.30 (approx.)

Link connections with foreign countries:

Italy-France: Milano - Monte Bignone - Pic de l'Ours.

Italy-Switzerland: Milano - Monte Generoso - Uetliberg.

★ LUXEMBOURG ★

TELE LUXEMBOURG (Comm.)

ADDR.: Compagnie Luxembourgeoise de Télédiffusion. Villa Louvigny, Luxembourg. – **L.P.:** Dir. Gen.: M. Felten. Dir. Prgr.: J. Luc. Dir. Tec.: N. Schmit.

STATION: Def. 819. ch. E7. 100/20 kW H. – **D. PRGR.:** Mo. 18.15–21.35. Tues. 18.15–21.30. Wed. 17.45–21.30. Thurs. 16.00–21.15. Fri. 18.15–21.35. Sat. 16.00–21.35. Sun. 17.30–21.30.

★ MONACO ★

MONTE CARLO (Comm.)

STATIONS: Dif. 815. ch. F10. 50/12.5 kW.

★ NORWAY ★

NORSK RIKSKRINGKASTING (Go.)

ADDR. and **L.P.:** See Norway. – **L.P.:** Dir. Gen.: K. Fostervoll. Chief of Planning: O. Granlund. Dir. Prgr.: O. Nes. Dir. Tec.: T. Navelsaker.

STATION: Oslo ch. E6 10/5 kW H.

D. PRGR.: Testpicture Mo., Wed., Fri. 11.00–13.00. Prgr.: Tues., Thurs., Sat. 18.30–19.30

★ POLAND ★

POLSKIE RADIO (Go.)

ADDR.: Telewizja, Plac Powstánców Warszawy 7, Warszawa. – **Cable:** Telewizja. – **L.P.:** Pres.: W. Sokorski. Vicepres., Engineering: K. Kozlowski. Dir. TV: J. Panski. Chief Eng.: J. Rutkowski.

STATIONS: Polarisation H.

Warszawa ch.	R2	7.5/3	kW	Lódz	ch.	R6	2.5/0.825 kW
Gdansk	– R3	4/1.25	–	Poznan	–	R7	1.5/0.4 –
Katowice	– R8	225/75	–	Wroclaw	–	R12	123/30 –

Link-connections: Warszawa-Gdansk. Warszawa-Lódz-Katowice. Wroclaw-Poznan. Katowice-Ostrawa (Czeckoslovakia).

D. PRGR.: Warszawa and all other stations: Daily 17.00–22.00, exc. Tues.

In the near future new TV stations will be opened in Szczech, Bydgoszcz, Kraków, Olsztyn, Lublin, Rzeszów and Kielce.

★ PORTUGAL ★

RTP – RADIOTELEVISAO PORTUGUESA S.A.R.L. (Comm.)

Portuguese Go.: 1/3 of the shares.

ADDR.: Head Office: Rua de S. Domingos (a Lapa) 26, Lisboa. Studio: R. Particular a Alameda das Linhas de Torres, 44. – **Porto:** Santo Ovidio, Vila Nova de Gaia. – **Cable:** Televisão. – **L.P.:** Pres. for the Board of Adm.: Eng. C. Lemos de Mendonca. Adm.'s: Major: J. B. Moniz, M. Lopes da Cruz, Dr. Luis de Athayde, Eng. M. Bivar. Dir. Gen.: Eng. C. Barradas da Silva. Chief Eng.: Eng. F. Bordalo Machado. Dir. Prgr.: Dr. A. Caetano de Carvalho.

STATIONS Ch. E: Lisboa (Monsanto) 7 100/20 kWH. – Porto (M. da Virgem) 9 103/20 kW H. – Coimbra (Lousã) 3 60/10 kW H. – Montejunto 6 1/0.2 kW H. – Monchique (Foia) 5 6.5/1.5 kW H.

D. PRGR.: W. 21.00–23.30. Sun. 18.00–19.30, 21.00–23.30.

★ RUMANIA ★

RADIODIFUZIUNEA TELEVIZIUNEA ROMINA (Go.)

ADDR.: Centrul de Televiziune, Bucuresti str. A. St. Popov 62. – **STATIONS:** Bucarest ch. RII 24/10 kW H. Moldova ch. R I 1.2/0.4 kW. – **D. PRGR.:** D. exc. Wed., Fri. 17.00–approx. 20.00. Sun. also 07.00–08.00.

★ SPAIN ★

TELEVISION ESPAÑOLA (Go)

ADDR.: Direccion: Av. de la Habana, 77, Madrid. – **L.P.:** Dir. Gen. Broadc. and TV: Ilmo Sr. D. José María Revuelta Prieto. Subdir. Gen. Tec. Broadc. and TV: Ilmo Sr. D. Joaquin Sanchez-Cordovés. Dir. Prgr. TV: Don V. Fernández Asís.

STATIONS: Madrid-Navacerrada ch. E2 200/100 kW – Navacerrada ch. E7 1/0.5 kW[1]) – Madrid-Chamartin ch. E3 2/1 kW – Zaragoza ch. E3 6/3 kW – Barcelona ch. E4 24/12 kW – Valencia ch. E5. [1]) Rel.

Television Chain: Seven intermediate rel.st.'s interconnecting Madrid and Barcelona via Zaragoza. – **Under construction:** Sevilla ch. E3 – Santiago de Compostela ch. E2 3 kW. – **Projected:** Radio-link chain between Madrid-Lisbon is being studied.

D. PRGR. from Madrid and Barcelona: D.: 13.45–14.45, 20.00–23.00. – **Childrens H.:** Thurs., Sat., Sun. 16.00–17.30. – **University:** W. 18.30–19.00.

★ SWEDEN ★

SVERIGES RADIO

Swedish TV, run by Sveriges Radio, has the same non-commercial and official status as the broadcasting service.

ADDR.: Sveriges Radio, Stockholm 27. – **Cable:** Broadcast. – **L.P.:** See Sound Broadcasting.

STATIONS: ch. E---. H. - kW E.R.P.

	ch.	kW		ch.	kW
Hörby	2	60/15	Jönköping	8	0.15/0.03
Örebro	2	1/0.3	Västerås	8	10/2
Skövde	3	15/3	Gävle	9	15/3
Stockholm	4	60/15	Göteborg	9	15/3
Sundsvall	5	15/3	Hälsingborg	9	1/0.3
Karlstad	5	0.15/0.03	Linköping	9	1/0.3
Norrköping	5	15/3	Karlskrona	9	0.15/0.03
Bollnäs	6	15/3	Borlänge	10	25/5
Halmstad	7	15/3	Malmö	10	1/0.3
Emmaboda	8	15/3	Nässjö	10	15/3

Projected stations:

In operation at the end of 1959			In operation in the period 1/1–1/6 1960		
Borås	6	1.5/0.3	Örebro II	2	60/15
Hultsfred	9	0.15/0.03	Gislaved	9	0.15/0.03
Härnösand	10	0.15/0.03	Kalmar	4	1/0.3
Trollhättan	7	0.15/0.03	Kycksele	8	1.5/0.3
Uddevalla	2	1/0.3	Mora	8	1/0.3
Uppsala	6	1.5/0.3	Sollefteå	7	15/3
Varberg	10	1.5/0.3	Sunne	7	60/15
Visby	9	25/5	Vännäs	2	60/15
Västervik	6	25/5	Östersund	4	60/15
Växjö	5	0.15/0.03			

D.PRGR.: Mo.: 14.00–approx. 14.20, 19.00–approx. 20.45. Tues.: 17.00–17.30, 19.00–approx. 20.45. Wed.: approx. 14.00–approx. 15.00. Thurs.: 12.00–approx. 18.00. Fri.: approx. 19.00–approx. 20.30. Sat.: approx. 17.00–17.30, 18.30–approx. 21.00. Sun.: 17.00–approx. 18.00. approx. 19.00–approx. 21.00.

★ SWITZERLAND ★

SWISS TELEVISION (Go.)

ADDR.: Swiss Television, 26 Kreuzstrasse, Zürich. **Cable:** Telesuisse, Zürich. – **Prgr. Sce's: German:** Bellerive Studios, 2 Kreuzstrasse, Zürich. – **French:** Office: 66, Bld. Carl-Vogt, Geneve. – **Italian:** 26, Kreuzstrasse, Zürich.

L.P.: Dir. Swiss Television Service: Edouard Haas. Head German Prgr.: Dr. Guido Frei. Head French Prgr. and Deputy Dir.: René Schenker. Head Italian Prgr.: Franco Marazzi. Head Tec.: H. R. Züst. Head Adm.: Rolf Wydler. Head Prgr. Coordination: Frank R. Tappolet.

STATIONS:

German Prgr.: Bantiger (Berne) ch. E2 30/6 kW – Uetliberg (Zürich) ch. E3 20/4 kW – Chrischona (Bâle) ch. E10 10/2 kW – Säntis. (St. Gall) ch. E7 30/6 kW.

French Prgr.: La Dôle ch. E4 100/20 kW.

Italian Prgr.: Monte Ceneri ch. E5 10/2 kW – San Salvatore ch. E10 10/2 kW.

Gap-filling transmitters (boosters): Tramelan (Jura), Sion (Valais), La Chaux-de-Fonds (Jura), Says (Coire), Martigny (Valais): St-Gall.

Projected Stations: Uetliberg: 1960, the Uetliberg station will consist of two parallel connected transmitters (10 kW) – **Chrischona:** New transmitter, late 1960 – **Bantiger:** Second transmitter for French programme, 1962 – **Rigi:** Central Switzerland, 1963 – **La Chaux-de-Fonds,** Jura (date of inauguration unknown) – **Mont-Pélerin,** Lac Léman, with a link running to the Valais, Niederhorn (Oberland), Celerina and Valzeina/Landquart (Grisons). Date of inauguration unknown.

D. PRGR.: In German, French daily (exc. Tues.): 19.15–approx. 21.00, and special prgrs. in the afternoon, f. inst. Eurovision, sporting events etc. – **Wed. and Thurs.** afternoon **Children's Hour. Sat.** afternoon: **Children's Hour, Women's Prgr.s, Sports News.** – **Sun.** morning: **Outside broadcast** services from churches. **Sun.** afternoon: Farmers' prgr., sports news, etc.

Until the Tessin obtains its own O.B. van and a small studio at Lugano Broadcasting House (probably 1960), the **Italian**-speaking transmitters relay, besides joint broadcasts, prgrs. from the German-speaking and French-speaking part of Switzerland, resp. with commentary in Italian.

Type of programmes: The Swiss TV programmes cover all subjects.

Relay facilities: A microwave link across the Alps. It runs from Gempen, near Bale (northern border) to Froburg-Bantiger-Jungfrau (12.200 ft.) - Monte Generoso (southern parts of Switzerland on the one side, and the German and Italian TV systems on the other side. – A second microwave link runs from Uetliberg - Froburg - Bantiger - Romont - La Dole. It has been extended to Cuiseaux for the programme exchange with France. – Third link: Uetliberg - Säntis - Pfänder (Austria).

★ USSR ★

STATIONS: Ch. R---. Definition: 625. **Polarisation:** Horizontal.

ADDR.'s of the most important TV studios: Tsentralnaja studija televidenija Moskva, ul. Sjabolovka 53 (Dir. I. Inozemtsev) – Leningradskaja studija televidenija Leningrad, ul. Malaja Sadovaja 2 – Kijevskaja studija televidenija Kijev, Krestjatik 24 – Minskaja studija televidenija Minsk, ul. Kalinina 6 – Rizjskaja studija televidenija Riga, ul. B. Nometnu 62 – Tallinskaja studija televidenija Tallinn, ul. Krejtsvalda 14 – Bakinskaja studija televidenija Baku, Parkovaja ul. 1. – Tasjkentskaja studija televidenija Tasjkent, ul. Navoi 69 – Jerevanskaja studija televidenija Jerevan, pr. Ordzjonokidze 22 – Tbilisskaja studja televidenija Tbilisi, pr. Rustaveli 12 – Vilnjusskaja studija televidenija Vilnius, studija televidenija – Alma-Atinskaja studija televidenija Alma-Ata, studija televidenija – Kisjinjovskaja studija televedenija Kisjinjov, studija televidenija.

	ch.	kW		ch.	kW		ch.	kW
Moscow I	I	20/4	Minsk	III	20/4	Vilnius	V	15/7.5
Moscow II	II	20/4	Riga	III	20/4	Kalinin	II	20/4
Kiev	II	20/4	Tallinn	II	20/4	Odessa	I	20/4
Leningrad	II	20/4	Charkov	III	20/4	Riga	III	20/4

Other stations in operation: Tashkent, Tbilisi, Erivan, Stalino, Stalingrad, Krasnojarsk, Rjazan, Baku, Barnerul, Izhevsk, Odessa, Omsk, Tomsk, Alma-Ata, Novosibirsk, Karaganda, Gorky, Kazan, Saratov, Sumy, Vinnitsa, Vladivostok, Yaroslavl, Dnjepropetrovsk, Laptevo, Serpukhor, Kisjinjov, Vladimir, Sverdlovsk, Archangelsk, Ashkhabad, Barnaul, Blagoveschensk, Chita, Funze, Grozny, Irkutsk, Kaliningrad, Khabarovsk, Kharkov, Kishinev, Murmansk, Petrozavodsk, Smolensk, Tomsk. – It is planned to have 75 TV-centres in operation in 1960.

D. PRGR. from the main cities of the republic and the central stations in the great areas: D. 16.00(Sat. 15.00)–approx. 20.00/21.00. Sun. also afternoon prgr.'s from 10.45.

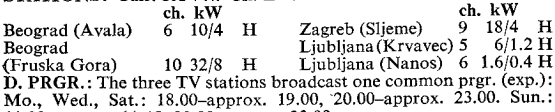
★ YUGOSLAVIA ★

ADDR.: Radiotelevision Yougoslave, Knez Mihajlova 19, Beograd. – **L.P.:** See Sound Broadcasting. Pres. of Prgr. Com. for TV: D. Strbac. Pres. Tec. Subcommission for TV: Eng. R. Žižić. – **Radio-televizija Beograd**, Hilendarska 2: Dir. Gen.: D. Popovic. Dir. Prgr.: V. Mitrovic. – **Radio-televizija Zagreb**, Jurisiceva 4: Dir. Gen.: I. Sibl. Dir. Prgr.: D. Strbac. – **Radio-televizija Ljubljana**, Tavcarjeva 17: Dir. Gen.: D. Seliger. Dir. Prgr.: L. Pohar.

STATIONS: Call: RTV... Ch. E--.

	ch.	kW			ch.	kW	
Beograd (Avala)	6	10/4	H	Zagreb (Sljeme)	9	18/4	H
Beograd (Fruska Gora)	10	32/8	H	Ljubljana (Krvavec)	5	6/1.2	H
				Ljubljana (Nanos)	6	1.6/0.4	H

D. PRGR.: The three TV stations broadcast one common prgr. (exp.): Mo., Wed., Sat.: 18.00–approx. 19.00, 20.00–approx. 23.00. Sun.: 11.00–approx. 11.45, 20.00–approx. 23.00.



★ ALGERIA ★

RADIODIFFUSION TELEVISION FRANCAISE (Go.)

ADDR.: 10 rue Hoche, Alger. – **L.P.:** Dir. TV, Dir. Tec.: Godin. Dir. Prgr.: Ramettre. Dir. Adm.: Chemineau. Dir. Inf.: Delalande.

STATIONS: Def. 819: Alger ch. F11 0.5/0.125 kW H. d. – Oran ch. F8 0.05/0.012 kW H. – Tizi Ouzou ch. F7 0.3/0.15 kW. – **Projected Stations:** Constantine ch. F12 10/1 kW (1960) – Bone ch. F10 3/0.3 kW (1960) – Chrea ch. F6 20/2 kW (1960).

D. PRGR.: 18.30–21.50. Thurs.: 11.30–12.30, 15.30–21.50. Sat.: 11.30–12.30, 15.20–21.50. Sun. 13.30–21.50.

★ CYPRUS ★

CYPRUS BROADCASTING TELEVISION (Go.)

ADDR.: P.O. Box 824, Nicosia, Cyprus. – **L.P.:** Dir. Prgr.: G. Mitsides.

STATION: Nicosia ch. E2 1.5/0.375 kW H. – **D. PRGR.:** Sun., Tues., Wed., Thurs., Fri.: 12.00–20.00.

★ IRAN ★

TELEVISION OF IRAN (Pr., comm.). – **ADDR.:** Habibollah Sabit, Saroya Ave., Tehran. – **L.P.:** O., Dir. Gen.: H. Sabit. Mgr.: V. Hallack. – **STATION:** ch. A2 2 kW. – **D. PRGR.:** D. 4 h. – **F.PL.:** TV-st. in Ahwaz.

★ IRAQ ★

BAGHDAD TELEVISION (Go.). **ADDR.:** Baghdad TV, Baghdad. – **L.P.:** Dir. Gen.: A. Rasim. Dir. Tec.: K. Al-Hakim. – **STATION:** ch. E8 0.5/0.25 kW. – **D. Prgr.:** 15.00–18.30.

Basra: 0.25 kW under construction.

★ KUWAIT ★

Government exp. 0.1 kW.

★ LEBANON ★

COMPAGNIE LIBANAISE DE TELEVISION (Comm.).

ADDR.: B.P. 4848, Beirut. – **L.P.:** Pres.: General S. Nofal. Vice Pres.: Rafic Said. Comm. Mgr.: W. Ezzedine. – **STATION:** Polarisation negative. Ch. E7 Arabic. Ch. E9 French, English.: 0.5 kW. – **D. PRGR.:** 17.30–20.15 or 20.30. Ch. 7 gives daily the **Journal**, a live oriental prgr. and films. Ch. 9 carries daily the **Journal**, films and telerecordings. – **F.PL.:** Relay stations.

★ SAUDI ARABIA ★

ARAMCO-TV: **ADDR.:** Arabian Oil Co., Dhahran. – **STATION:** ch. A2 12/6 kW.

★ TURKEY ★

TEKNIK UNIVERSITE (Go.). – **ADDR.:** Elektrik Fakültesi, Yüksek frekans teknigi Kürsüsü, Istanbul. – **L.P.:** Prof. A. Ataman. **STATION:** ch. E4 0.1/0.05 kW d.

★ CHINA (The People's Republic of China) ★

PEKING: Visual 57.75, Sound 64.25 mc/s, 5/2.5 kW: D. 10.30(Sat. 10.00)–14.30 Tues., Wed., Thurs., Fri., Sun.

SHANGHAI (exp.): Visual 93.25, Sound 99.75 mc/s, 0.5/0.25 kW.

HARBIN (exp.): Visual 49.75, Sound 56.25 mc/s, 0.05/0.025 kW.

CHANGCHUNG (exp.): Visual 57.75, Sound 64.25 mc/s, 1/0.1 kW.

★ JAPAN ★

NIPPON HOSO KYOKAI (Public Corporation, non-comm.)

Special Juridical Person provided in Broadcast Law.

ADDR.: 2-2, Uchisaiwai-cho, Chiyoda-ku, Tokyo. **Cable:** Radio TV N.H.K.

L.P.: Pres.: H. Numora. Vice Pres.: K. Mizokami. Man. Dir.'s: Y. Maeda, Y. Tanabe, K. Ono. Dir. Prgrs.: M. Akagi. Dir. Tec.: F. Mikuma.

STATIONS: Call: JO--TV. Polarisation: H. exc. Kainan V. – Ch. J. – Def. 525.

Name	Call	ch.	kW
Tokyo	AK	1	10/2.5
Tokyo[1]	AB	3	10/2.5
Nagano	NK	9	1/0.25
Nagano[2]		5	0.025/0.007
Niigata	QK	2	5/1.25
Kofu	KG	2	3/0.75
Osaka	BK	2	10/2.5
Osaka[1]	BB	2	10/2.5
Kainan[2]		2	0.001/0.00025
Nagoya	CK	3	10/2.5
Shizuoka	PK	9	1/0.25
Kanazawa	IK	4	1/0.25
Toyama	IG	3	3/0.75
Fukui	FG	9	3/0.75
Hiroshima	FK	3	5/1.25
Okayama	KK	5	5/1.25
Kure[2]		11	0.012/0.003
Tottori	LG	3	1/0.25
Hofu	UG	9	1/0.25
Matsue	TK	6	1/0.25

Name	Call	ch.	kW
Kumamoto	GK	9	1/0.25
Fukuoka	LK	3	10/2.5
Kokura	SK	6	1/0.25
Kagoshima	HG	3	5/1.25
Nagasaki	AG	2	1/0.25
Sasebo	AT	8	1/0.25
Oita	IP	2	3/0.75
Sendai	HK	3	5/1.25
Taira[2]		4	0.025/0.007
Morioka	QG	4	3/0.75
Fukushima	FP	9	3/0.75
Aomori	TG	3	5/1.75
Sapporo	IK		5/1.25
Hakodate	VK		0.25/0.07
Muroran	IU	9	1/0.25
Asahikawa	CG	9	1/0.25
Matsuyama	ZK		0.25/0.07
Kochi	RK		1/0.25
Tokushima	XK	3	1/0.25

Tokyo Exp. Color TV: JOAK-TVX ch. J3 10/0.25 kW.
Bold face = Central st. [1] Education. [2] Relay.
Projected Stations: Morioka ch. 4 18/9 kW – Nagasaki ch. 2 6/3 kW – Fukushima ch. 9 18/9 kW – Aomori ch. 3 41/20.5 kW – Sasebo ch. 8 12/6 kW – Ohita ch. 2 17/8.5 kW.
D. PRGR.: Mo.–Fri.: 22.00–23.00, 02.00–04.30, 09.00–14.00. Sat.: 22.00–23.00, 02.00–04.00. Sun. 22.00–14.00.

PRIVATE STATIONS (Comm. exc. JOEX): Call: JO--TV ch. J.

	ch.	kW	
HR	1	10	Hokkaido Broadc. Co., Sapporo, Muroran.
FX	1	10	Tokai TV Broadc. Co., Nagoya.
IR	1	10	Tohoku Broadc. Co., Sendai.
GX	1	1	Nihonkai Broadc. TV Co. Ltd., Tottori City.
QF	1	10	Hokkaido Broadc. Co., Hokkaido.
LR	1	3	Kita-Nihon Broadc. Co., Toyama.
JK	1	1	Japan Sea Telecasting Co., Tottori.
JR	1	1	Shikoku Broadc. Co., Tokushima.
JF	1	10	Kyushu Asahi Broadc. Co., Fukuoka.
CF	1	5	R. Minami-Nihon Broadc. Co., Kagoshima.
GR	1	5	R. Aomori Broadc. Co., Aomori.
FR	4	10	RKB. Mainichi Broadc. Co., Fukuoka.
OR	4	10[1])	MBS. Mainichi Broadc. System, Osaka.
AX	4	10	Nippon TV-Network Co., Tokyo.
ER	4	5	R. Chugoku Broadc. Co., Hiroshima.
AR	5	10	Chubu Nippon Broadc. Co., Nagoya.
DR	5	5	R. Niigata Inc., Niigata.
KX	5	10	Sappora T.V. Broadc. Co., Sapporo.
UR	5	1	Nagasaki Broadc. Co., Nagasaki.
JF	5	3	R. Yamanashi Broadc. Co., Yamanashi.
GF	5	3	R. Oita Broadc. Co., Oita.
DF	6	3	Iwate Broadc. Co., Morioka.
KR	6	10	R. Tokyo Inc., Tokyo.
HO	6	6	Hokkaido Broadc. Co., Hakodate.
NR	6	10	Asahi Broadc. Co., Naka 1-ch., Dojima, Osaka. – **D. Prgr.:** W.: 02.30(Fri. 01.55)–04.30, 08.30–14.10. Sun. 23.40–14.20.
MR	6	3	Hokuriku Broadc. Co., Kabazawa.
KR	6	10	R. Tokyo Inc., Tokyo.
FO	6	10	Osaka TV Broadc. Co., Osaka.
DX	8	10	Kansai Telecasting Corp., Osaka.
ZR	8	1	R. Kochi Broadc. Co., Kochi.
CX	8	10	Fuji Telecasting Co., Tokyo.
DX	8	10	Kansai TV Corp., Osaka.
FO	8	1	Mainichi Broadc. Co., Yawahata.
KF	9	5	Nishi-Nippon Broadc. Co., Takamatsu.
HX	10	6	The TV Nishi-Nippon Corp., Kyushu.
AF	10	5	Nankai Broadc. Co., Matsuyama.
IX	10	10	Yomiuri TV Broadc. Corpo., Osaka.
HX	10	1	TV Nishi-Nippon Corp., Yawata.
MF	10	1	Nagasaki Broadc. Co. Ltd., Sasebo.
EX	10	10	Nippon Educational TV Co., Tokyo.
HF	10	1	R. San-In Broadc. Co., Yonago.
SR	11	1	Shin-etsu Broadc. Co., Nagano.
BF	11	1	R. Kumamoto Broadc. Co., Kumamoto.
VR	11	1	R. Shizuoka Ltd., Shizuoka.
YR	11	5	Sanyo Broadc. Co., Okayama.
BF	11	1	R. Kumamoto Broadc. Co., Kumamoto.
QF	11	1	Hokkaido Broadc. Co., Muronan.
PF	11	1	R. Yamaguchi Broadc. Co., Tokuyama.
PR	11	3	Fukui Broadc. Co., Fukui.
Projected Stations:			
NL	6	0.25	R. Miyazaki Broadc. Co., Kadokawa. 1/3 60.
TR	10	5	R. Tohoku Broadc. Co., Akita. 1/5 60.
EF	10	3	Yamagata Broadc. Co., Yamagata. 1/4 60.
NF	10	1	R. Miyazaki Broadc. Co., Miyazaki. 1/3 60.

★ RYUKYU ISLANDS ★

OKINAWA TELEVISION BROADC. COMP. (Comm.)
Addr.: 1-chome, Matsuyama-cho, Naha, Okinawa **Station:** KSDW-TV ch 10 (192-198 mc) 5 kW. Japanese and English language.
RYUKYU BROADC. CORPO (Comm.)**:** Facilities planned: KSAR-TV ch A 12 (204–210 mc/s) 1 kW. Prgr's. in Japanese, in English. In operation May 1960.

★ KOREA, Rep. ★

DAI HAN BROADC. CORP.: ADDR.: Seoul. – **L.P.:** Dir. Prgr.: Choi, Chang Bong. Dir. Tec.: Shin, Kwang Woo. – **Station:** ch. A9 0.5/0.25 kW. – **D. Prgr.:** D. 4 hours.

★ PHILIPPINES ★

BOLINAO ELECTRONICS CORP. ADDR.: 5th f. Wm. Li Yao Bldg. Manila. – L.P.: Exec. Vice Pres.: E. Lopez, Jr. Production Mgr.: L. Garcia. Chief Eng.: A. Carandang, Jr. – **Station:** DAZQ-TV ch. A3 6.76/3.5 kW. – **D. Prgr.:** 10.00–14.00.

CHRONICLE BROADCASTING NETWORK. ADDR.: Aduana, Manila. – **Station:** DZXL-TV ch. A9 1.34/0.7 kW. – **D. Prgr.:** 05.00–15.00. – **Projected St.'s:** Republic Broadcasting System, Quezon City: ch. A7 0.1 kW – Inter-Island Broadcasting Corp., Manila: ch. A13 1 kW – Chronicle Broadcasting Network: Baguio City ch. A2 0.5 kW – Bacolod City ch. A2 0.5 kW – Cebu City: ch. A3 0.5 kW – Metropolitan Broadc. Co.: Cebu City. ch. A9 1 kW – A. J. Wills: Davao City ch. A7 0.5 kW.

★ THAILAND ★

THAI TELEVISION CO. LTD.: Addr.: Manson B. Rajadammern Ave., Bangkok. Cable: ThaiTV. – **L.P.:** Dir. Gen.: Lt. Gen. Charusreni. Mgr.: P. Hongsananda. Dir. Tec.: A. Pojpisut. – **Station:** HST-TV ch. A4 27/4.5 kW H: Tues.–Sat. 10.30–15.00.
ROYAL THAI ARMY SIGNAL CORPS.: Addr.: Bangkok. – **Station:** Ch. A7 60/15 kW.

PACIFIC

★ AUSTRALIA ★

Standards: Def.: 625. Frame frequency: 25. Ch.width: 7 mc. FM.

THE NATIONAL TELEVISION SERVICE
National Television is controlled by the Australian Broadcasting Commission, which is responsible to the Postmaster-General, whose department controls the transmitters. – **ADDR.:** Australian Broadcasting Commission, 264 Pitt Street, Sydney. – **Cable:** Abcom Sydney. **L.P.:** See Sound Broadcasting. Controller of Technical Sce's: L. D. Hadfield.
STATIONS: The A.B.C. controls six stations: One each in Sydney (ABN), Melbourne (ABV), Brisbane (ABQ), Adelaide (ABS), Perth (ABW), and Hobart (ABT). All transmitters operate on ch. 2 on 63–70 mc/s, 100/24 kW.
D. PRGR.: Sun. 04.30–12.30. Mo.–Fri. 06.00–13.00. Sat. 03.30–13.00.

PRIVATE COMM. STATIONS:
The first two letters are an abbreviation of the name of the licensee, the third indicates the state and the numeral signifies the channel.

	frequencies (mc/s) vision	sound	kW	
1. TVT6	175.25	180.75		Tasmania TV Ltd.
ADS7	181–188		100/20 V.	Television Broadcasters Ltd.
TVW7	182–189		100/20 H.	TVW Ltd.
HSV7	182.25	187.75	100/20 H.	Herald-Sun Television
ATN7	182.25	187.75	100/20 H.	Amalgamated Television Sce.'s
BTQ7	182.25	189.75	100/20	Brisbane TV Ltd.
GTV9	196.25	201.75	100/20	General Television Corp.
TCN9	196.25	201.75	100/20	Television Corp. Ltd.
NWS9	196.25	201.75	100/20	Southern Television Corp.
QTQ9	196.25	201.75	100/20	Queensland Television Ltd.

1. **Addr.:** 84 Elisabeth Str., Hobart, Tasmania. – **L.P.:** Man. Dir.: E. G. McRae. Dir. Tec.: W. S. Morrison.
2. **Addr.:** 125 Strangways Terrace, No. Adelaide. – **L.P.:** Gen. Mgr.:

★ HAWAII ★

Call.	ch.A	kW	Name (Comm.)
3) KONA	2	60.3/30.2	R. Honolulu Ltd.
4) KMAU-TV	3	6/3	Hawaiian Broadc. System. Satellite for KGMB (Wailuku).
1) KHVH-TV	4	25.3/12	Kaiser Station.
1) KULA-TV	4	25.3/12	Kaiser Station
3) KALA	7	11.9/5.95	R. Honolulu. Satellite of KONA.
4) KHBC-TV	9	1/0.5	Hawaiian Broadc. System, Ltd.
4) KGMB	9	105/50	KHBC satellite of KGMB (Hilo).
5) KMVI	12	27.5/14.1	Maui Publishing Co. Ltd. Satellite for KHVH.

★ MARIANAS ISLANDS ★

GUAM AGANA: (Comm.) Addr.: Box 368, 321 S. Beverly Dr., Beverly Hills, Cal. Gen. Mgr.: H. M. Engell. Mgr.: J. P. Barton. Dir. Tec.: E. Sibaya. – **Station:** KUAM-TV: ch A8 0.43/02.1 kW. – **D. Prgr.** 10.00–(Sat. 02.30)–approx. 16.00.

NORTH AMERICA

★ CANADA ★

CANADIAN BROADCASTING CORP. (Publicly owned)
ADDR.: Quebec Region: CBFT, CBMT: 1425 Dorchester Str. West, Montreal. – Maritime Region: CBHT, Bell Road, Halifax, Nova Scotia. – Prairie Region: CBWT, 541 Portage Ave., Winnipeg, Manitoba. – British Columbia Region: CBUT, 701 Hornby Str., Vancouver. – Ontario Region: CBLT, 354 Jarvis Str., Toronto, CBOT, CBOFT, P.O. Box 39, Westboro, Ottawa.

L.P.: Controllers of Operations – **Ottawa:** J. P. Gilmore – **Quebec Region:** CBFT, CBMT: Dir.: Yves Vien; Program Dir.: F. Guerard (CBFT, French). Technical Director: C. Frenette – **Maritime Region:** CBHT: Dir. F. Brickenden; Prgr. Dir.: C. MacCaul; Tec. Dir.: J. Simonsen – **Prairie Region:** CBWT: Dir.: W. Carpentier; Prgr. Dir.: B. D. MacPherson. Tec. Dir.: H. Heywood – **B. C. Region:** CBUT: Dir.: Hugh Palmer; Prgr. Dir.: W. Inglis. Tec. Dir.: R. Whiteside – **Ontario Region:** CBLT Dir.: W. R. Graham. Tec. Dir.: R. Horton; CBOT-CBOFT Mgr.: Georges Huard; Prgr. Dir.: Dennis Townsend; Tec. Dir.: J. Book.

STATIONS: Polarisation V. E: **English** Network. F: **French** Network.

Def. 525.		ch.A	kW				ch.A	kW	
Montreal	CBFT	2	100/50	F	Vancouver	CBUT	2	89.4/47.8E	
Montreal	CBMT	6	43.8/26.2E		Toronto	CBLT	6	99.5/53.5E	
Halifax	CBHT	3	100/60	E	Ottawa	CBOT	4	50.1/26.7E	
Winnipeg	CBWT	3	57.8/34.7E		Ottawa	CBOFT	9	55/31	F

	ch.	kW	
CFCJ-TV	2	28/15	E. Thunder Bay Electr., Port Arthur, O.
CFCL-TV	2	3.7/1.7	E. Elk Lake, O.
CKCK-TV	2	100/53.5	E. Regina, Saskatoon.
CHCT-TV	2	100/50	E. P.O.Box 550, Calgary, Al.
CJIC-TV	2	28/15	E. 119 East St. Sault Ste. Marie, O.
CKCW-TV	2	25/15	E. Knights of Pythias Hall, Moncton,
CHBC-TV	2	3.7/1.6	E. Okanagan Valley TV Co., Kelowna
CFCL-TV-1	3	8.8/4.4	E.* Kapuskasing, O.
CJBR-TV	3	60.6/34.5	F. St. Jean, Rimouski, Quebec.
CFRN-TV	3	180.3/90.4	E. Jasper Avenue, Edmonton.
CKVR-TV	3	26/13	E. P.O.Box 69, Barrie, O.
CKSO-TV	3	4/2	E. CKSO Radio Ltd., Elliot Lake, Ont.
CKOS-TV	3	5/2	E. Yorkton T.V. Co., Ltd., Yorkton Sask.

CBOT: Mo. Fri.: 22.00–05.30. Sat. 20.00–06.00. Sun. 18.00–05.30. CBOFT: D.: 10.00–02.30 exc. Sat.: 18.30–06.00 – CBHT: W.: 20.30–04.15.

The microwave network is now in operation from St. John's, Newfoundland to Victoria, B.C.

BASIC-PRIVATE STATIONS:

	kW	
CJCB-TV	100/60	Sydney
CHSJ-TV	100/50	Saint John, N.B.
CFCM-TV	50/25	Quebec
CKRN-TV	50/25	Rouyn
CKSO-TV	30/16	Sudbury, O.
CKX-TV	19.3/9.65	Brandon, M.
CJON-TV	21/11	St. John's, N.F.
CHEK-TV	1.8/0.9	Victoria
CHLT-TV	170/100	Sherbrooke, P.Q.
CJLH-TV	96.1/44.9	Lethbridge, Al.
CKNX-TV	20/12	Wingham, Q.
CFQC-TV	180/100	Saskatoon, Sask.
CKNX-TV	90/55	Wingham, O.
CKBL-TV	150/90	Matane, Que.
CKLW-TV	178/107	Windsor, O.
CFPL-TV	325/195	London, O.
CKGN-TV	28.5/14.2	North Bay, O.
CKWS-TV	101/60.6	Kingston, O.
CHCH-TV	150/90	Hamilt., O.
CHEX-TV	102/61.2	Petersborough, O.
CKRS-TV	20/10	Jonquière, Qu.
CKCO-TV	100/54	West Kitchener, O.
CFCY-TV	38.6/19.3	Charlottetown, P.E.I.
CKTM-TV	3.3/1.6	Three Rivers, Que.

+ 13 supplementary and satellite st's.

★ MEXICO ★

STATIONS: Call. XE––– exc. where indicated. Ch. A.

Cultural:

IP-TV Ch. A11 200/100 kW. Instituto Politecnico Nac. Casco de Santo Tomás, Mexico. D.F.

Commercial:

Call.	ch.	kW		
W-TV	2	50/25	H	Telesistima Mexicano, S.A. Ed. Televicentro, Av. Chapultepec 18, Mexico D.F. – D. Prgr. 21.00–07.00. – L.P.: Dir. Gen.: E. Azcarraga. Mgr. E. Azcarraga M. y R. O'Farrel jr. Dir. Prgr.: L. de Llano. Dir. Tec.: Eng. M. A. Pereyra. Dir. Press, Inf.: J. M. Duran y Casahonda.
XH-TV	4	15/7	H	
XHGC	5	15/7	H	
[1])Q-TV	9	50/25		
[2])X-TV	7	5/2.5		
[3])—	13	3.45/1.7	d.	
TV	6	100/50		R. Television S.A., Tijuana, B.C.
J-TV	5	0.5/0.25		Television de la Frontera, Ciu. Juarez.
M-TV	11	30/15		Televisora de Mexicali, Mexicali, B.C.
FE-TV	11	0.5/0.25		Nuevo Laredo Television, Nuevo Laredo.
[4])FB-TV	3	15/7	H	Cadena Televisora del Norte, Monterry
Z-TV	3	10/5		Televisora del Centro, S.A., E Queretaro (relay).
LN-TV	4	0.5/0.25	H	Televisora de la Laguna, Torreón.
RA-TV	11	0.4/0.2	Hd.	Televisora de Chihuahua, Chihuahua.
WH-TV	6	100/50	H	Televisora de Hermosillo, Hermosillo.
WO-TV	2	150/75	H	Televisora de Occidente, Guadajara.
[4])XHNL-TV	10	5/1.5	H	Cadena Televisora del Norte, Monterry
LD-TV	7	15/7		Television de Matamores, Mexico. D.F.

Relay Stations:

1) Radio Panamericana, S.A., Altzomoni: Rel. Ch. A2.
2) Televisora Paso de Cortes, S.A., Altzomoni: Rel. Ch. A2 or A4. Televisora del Centro, S.A., Zamarano. Z-TV. Ch. A3 48/24 kW. Televisora de Guanajuato, S.A., Zamarano. Ch. A6 100/50 kW. Telesistima Mexicano, S.A., Aguascalientes Ags.: Rel. Ch. A5. Televisora de Occidente, S.A., Guadalajara, Jal. Ch. A2 15/7 kW.

Additional Information:

4) L.P.: Dir. Gen.: M. Quintanilla G. Dir. Tec.: Eng. R. Rueda R. Production Mgr.: E. Gonzales H. – **D. Prgr.** 19.00–06.00.

★ UNITED STATES OF AMERICA ★

	Authorized	Licensed	Operating
TV comm. st.'s:	668	476	569
TV educational st.'s:	59	37	52
TV translator st.'s:	253	168	168

EDUCATIONAL TV-STATIONS

The 52 operating TV educational stations are mainly situated in the large cities and university centres. They are of three types: 1) Community stations supported by voluntary funds; 2) University stations supported by State and local budgets; 3) State-owned networks covering entire divisions of the country supported entirely by taxation. An interesting development for educational purposes is closed-circuit TV, limited to universities and to individual school-systems. A prgr. sce. known as the National Educational Television and Radio Center located at Ann Arbor Mich., supplies educational TV prgrs. to the present stations and in addition, distributes its prgr's. to both closed circuit and film projectors which are in use in thousands of schools.

THE ARMED FORCES RADIO & TELEVISION SERVICE

TELEVISION OUTLETS

L.P.: Officer in charge: Lt. Col. J. N. Bornholdt.

A: Army. AF: Air Force. N: Navy. RCA: Royal Canadian Army.

Name	Sce.	ch.A	Watt	Name	Sce.	ch.A	Watt
CARIBBEAN AREA				N. AFRICAN AREA			
F. Clayton	A	8	200[1])	Tripoli	AF	8	200[10])
F. Davis	A	10	200[1])	Asmara	A	8	100[11])
Ramey	AF	21	1 kW[2])	**EUROPEAN AREA**			
Roosevelt Rd	N	22	200[2])	Spangdahlem	AF	24	200[13])
Guantanamo	N	8	200[3])	Iraklion	AF	8	100[16])
N. ATLANTIC				Ramstein	AF	20	200[13])
Goose Bay	RCA	8	200[4])	**N.EA., EA., FAR EA. AREA**			
Harmon AFB	AF	8	200[4])	Teheran	AF	8	200[17])
Lajes Field	AF	8	50[6])	Dhahran	AF	8	200[12])
Kindley AFB	AF	10	200[6])	Okinawa	AF	8	200[14])
Sondrestrom	AF	8	200[7])	Seoul	A	3	500[15])
Thule AFB	AF	8	50[7])	Camp Kaiser	A	12	50[15])
Keflavik	AF	8	200[8])	Camp Jackson	A	12	50[15])
PACIFIC AREA				Osan-Ni	A	12	50[15])
Midway	N	8	100	St. Barbara	A	3	50[15])
Eniwetok, M.I.	AF	6	200[9])	Camp Casey	A	3	50[15])
Guam, M.I.	N	10	200	Uijongbu	A	12	50[15])
				Clark AFB	AF	8	200[16])
				Luzon	AF	8	100[16])

1) Panama. 2) Puerto Rico. 3) Cuba. 4) Canada. 5) Azores. 6) Bermuda. 7) Greenland. 8) Iceland. 9) Marshall Isl. 10) Libya. 11) Eritrea. 12) Saudi Arabia. 13) Germany. 14) Ryukyu Isl 15) Korea. 16) Philippines. 17) Iran.

AMERICAN BROADCASTING CO., 7, West 66th Str., New York 23, N.Y. – **L.P.:** A.B. – PT. Pres. L. H. Goldenson, Pres. of TV-network: O. Treyz. Vice Pres., in charge of Press, Inf.: M. J. Foster. – **Owned and operated st.'s:** WABC-TV, New York, WBKB-TV, Chicago, WXYZ-TV, Detroit, KABC-TV, Los Angeles, KGO-TV, San Francisco.

COLUMBIA BROADCASTING SYSTEM INC., 485 Madison Av., New York 22, N.Y. – **L.P.:** Pres. CBS TV-stations Div.: L. G. Gowan. Dir. Inf. Sce.: Ch. S. Steinberg. – **Owned and operated st.'s:** WCBS-TV, New York. WBBM-TV, Chicago. KNXT, Los Angeles. WXIX, Milwaukee. WHCT, Hartford. WCAU-TV, Philadelphia. KNOX, St. Louis.

NATIONAL BROADCASTING CO., RCA Building, New York 20, N.Y. – **L.P.:** Chairman of the Board: R. W. Sarnoff. Pres. R. E. Kintner. Exec. Vice Pres.: TV-network: W. D. Scott. Dir. Information: L. Bernstein. – **Owned and operated st.'s:** New York: WRCA-TV, Hartford: WNBC, Washington: WRC-TV, Chicago: WNBQ-TV, Philadelphia: WRCV-TV. Los Angeles: KRCA-TV.

★ PUERTO RICO ★

Calll.	ch.A	kW	Comm. exc. Dept. of Education
WKAQ-TV	2	100/50	El Mundo Inc., Box 1072, S. Juan.
WAPA-TV	4	60/30	Ponce de Leon Broadc. Co. Inc., 357 Ponce de Leon Ave., S. Juan.

WORA-TV	5	30/15	R. Americas Corp., Box 43, Mayaguez.
WIPR-TV[1])	6	100/50	Dept. of Education, Aptdo. 306, S. Juan.
WRIK-TV	7	30/15	Ponce TV Corp., Darlington Bldg., Ponce.
WSUR-TV	9	0.96/0.5	American Colonial Broadc. Corp., Box 4189, S. Juan. Tr. in Ponce.
WKBM-TV	11	30/15	American Colonial Broadc. Corp., Box 4189, San Juan. Tr. in Caguas.
WOLE-TV	12	112/61.5	Aquadilla.

D. PRGR.: Approx. 17.00–20.00 to approx. 02.00–04.00.
[1]) **L.P.:** Dir. Gen.: R. D. Marquez. Dir. Prgr.: L. S. Santiago. Dir. Press, Inf.: J. Rivera. – **Projected St.:** WIPM-TV ch. A3 1960. – **D. Prgr.:** 20.00–01.00 (Sat., Sun. 01.30).

CENTRAL AMERICA

★ BERMUDA ★

BERMUDA BROADCASTING CO. LTD.
ADDR.: Bermudiana Rd., Hamilton. – Man. Dir.: W. Staskow. – **STATION:** ZBM-TV ch. A10 0.8/0.4 kW. **D.:** 22.00 (Sun. 21.00)–03.00. **AFRTS:** See USA. Shares time with ZBM-TV.

★ COSTA RICA ★

TELEVISORA COSTA RICA: Addr.: Apdo 3876, San José. – **L.P.:** Dir.'s: Carlos Reyes, Rene Picado. – **STATION:** TI-TCR ch. A7. On the air Jan. or Febr. 1960.

★ CUBA ★

CM--	ch.	A kW	H Name and address
1) AB-TV	2	100/50	Telemundo, Habana and Pinar del Rio.
2) KU-TV	2	13.7/6.9	Circuito CMQ, Stgo. de Cuba.
3) H-TV	3	30.9/13.5	CMBF Cadena Nacional, St. Clara
2) KJ-TV	3	27.5/13.7	Circuito CMQ, Holguin.
3) BF-TV	4	100/50	CMBF Cadena Nacional, Habana.
3) J-TV	4	25/12.5	CMBF Cadena Nacional, Camaguey.
2) HQ-TV	5	25.6/12.8	Circuito CMQ, Sta. Clara.
3) -TV	5	14.3/7.1	CMBF Cadena Nacional, S.A., Santiago de Cuba.
2) Q-TV	6	100/50	Circuito CMQ, Habana.
2) JL-TV	6	48.4/24.2	Circuito CMQ, Camagüey.
BA-TV	7	51/25	Cia. Radio Universal, Habana.
1) Satellite	7	32/16	Telemundo, Stgo. de Cuba.
2) JV-TV	7	18.2/9.08	Circuito CMQ, Ciego de Avila.
1) RA-TV	8	32/16	Telemundo, Sta. Clara.
3) LR	8	9.57/4.78	CMBF Cadena Nacional, Holguin.
2) GQ-TV	9	28.8/14.4	Circuito CMQ, Matanzas
1) FE-TV	9	32/16	Telemundo, Camagüey.
(CM)-TV	10	25/12.5	Television Habanera, Ambar Motors Bldg., Habana.
1) GH-TV	11	32/16	Telemundo, S. Miguel.
1) FF-TV	12	32/16	Telemundo, Gatibonico.
BJ-TV	12	115/55	G. Pumareio, Hotel Hilton, Habana.
1)	13	32/16	Telemundo, Holguin.
3) G-TV	13	28/14	CMBF Cadena Nacional, Matanzas.
3) —	73	0.001	CMBF Cadena Nacional, S.A., Victoria de las Tunas (Satellit).

Projected stations: Circuito CMQ: Pinar del Rio CMAQ-TV ch. A5H. CMBF Cadena Nacional: Pinal del Rio Ciego de Avila ch. 2.
1) **Telemundo,** Ambar Motors, Calle P. y 23rd, Vedado, Habana. – **L.P.:** Pres. G. Fernandez. Dir. Tec.: V. Montes. Dir. Prgr.: G. Perez. – **D. Prgr.:** 12.00–05.00.
2) **Circuito CMQ,** Edif. Radiocentro, Habana. – **L.P.:** See Sound Broadcasting. – **Stations:** Habana CMQ-TV, Matanzas CMGQ-TV, Sta. Clara CMHQ-TV, Ciego CMJV, Camagüey CMJL-TV, Holguin CMKJ-TV, Stgo. de Cuba CMKV-TV, Victoria. – **D. Prgr.:** 14.00–06.00.
3) **CMBF Cadena Nacional,** S.A., Mazón y San Miguel, Habana. **Projected st's:** Ch. 2: Pinar del Rio, Ciego de Avila.

★ DOMINICAN REP. ★

LA VOZ DOMINICANA-TV (Comm.): **ADDR.:** Calle Miami Ciudad Trujillo, D.S.D. **Cable:** Dominicana. – **STATIONS:** HIT-TV ch. A4 16/8 kW – HIN-TV ch. A7 1/0.5 kW H. – **Rel. st.'s:** La Cumbre ch. A9 0.5 kW, Santo Cerro ch. A2 5 kW.

★ EL SALVADOR ★

TELEVISION SALVADORENA S.A, Ed. Central, 4a.Av.Sur ± 322, San Salvador. – **L.P.:** Gen. Mgr.: B. Eserski. – **St.:** YSEB-TV ch. A6 (San Salvador) 1.5/00.75 kW. and YSDR-TV ch A8 40/20 kW (National).
RADIOTELEVISION YSU, S.A., Av. Olimpica, y Doble Via, Col. Escalon, S. Salvador. **L.P.:** Dir. Gen.: Dr. H. Escapini. Mgr.: R. Trabanino. Dir. Tec.: R. Rahn. Dir. Press, Information: J. D. Calderón. – **ST.:** YSU-TV ch. A4 77/38 kW: 18.00–20.00, 23.00–04.00.
TELEVISION NACIONAL, 2A, Av. Sur 1, San Salvador. YSS-TV ch. A2. Projected.

★ GUATEMALA ★

TELEVISION NACIONAL (Go.) – **ADDR.:** Edif. de la Tipografia Nacional, Calle 18 de Septiembre y 7a Ave. Sur. Guatemala. – **L.P.:** Dir. Gen.: J. M. Lehnoff. Mgr.: C. Murga. Dir. Tec.: M. Mazariegos. Dir. Inf.: Mrs. J. Jaüregui. – **STATIONS:** ch. A8 0.3/0.2 kW V.
RADIO-TELEVISION GUATEMALA, S.A. – **ADDR.:** 8a. Ave. 9–23 – Zona 1, Guatemala City. – **L.P.:** Dir. Gen.: Mgr.: M. Bolanos G., Dir. Tec.: M. Batres S. – **STATION:** TG-BOL-TV ch. A3. 15/7.5 kW V.

★ HONDURAS (Rep.) ★

PROJECTED STATIONS: Compania Televisora Hondureña, S.A., Tegucigalpa, D.C.: TG-TV ch. A5. – **José R. Ferrari,** Tegucigalpa, D.C.: N-TV ch. A3 0.5 kW.

★ NICARAGUA ★

TELEVISION DE NICARAGUA, S.A. (Comm.): **ADDR.:** Apdo. 1505. Managua: **Cable:** Tevenic. – **L.P.:** Dir. Gen.: R. O. Cano. Dir. Prgrs.: H. Pascale. Dir. Tec.: Capt. J. Buitrago Ch. – **STATION:** YNSA-TV ch. A8 300/175 Watt V. – **D. PRGR.:** D. 23.30–05.00. – **F. PL.:** Increase of power to 60/30 kW.

★ PANAMA ★

Call.	ch.	A kW	Name
1. HOA-TV	2	0.5/0.25	Radiodif. Panamericana, S.A.
2. HOHM-TV	4	64/32	Corpo. Panamena de Radiodif., S.A.
2. HOH2-TV	6	0.5/0.25	(HOHM: Panama. HOH2: Colon)
3. CFN-TV	8	0.25/0.12	Fuerzas Armodes del Caribe.
3. CFN-TV	10	0.25/0.12	(CFN8: Panama. CFN10: Colon)
1. HOW-TV	12	0.5/0.25	Radiodif. Panamericana, S.A., Colon

SOUTH AMERICA

★ ARGENTINA ★

PRIMERA TELEVISORA ARGENTINA, S.A. (Comm.)
ADDR.'s: Av. Leandro N. Alem 719, Buenos Aires. **L.P.:** Dir. Gen.: M. A. Etchichury. Dir. Tec.: Eng. F. Licht. Prod. Mgr.: J. Lorenzo, Artistic Mgr.: A. C. Vatteone. Sales Mgr.: J. B. Drake. – **STATION:** ch. A7 40/20 kW. – **D. PRGR.:** D. 19.00–03.30.

★ BRAZIL ★

RADIO DE JANEIRO	ch.	kW
Emis. Radio Televisao Continentales	9	25/12.5
Televisão Globo	4	25/12.5
R. Mayrink Veiga	7	25/12.5
Televisão Nac.	2	25/12.5
Televisão Rio S.A.	13	30/11.5
Televisao Tupi	6	21.2/12.7
Televisão Tupi	6	25/12.5
SAO PAULO		
Televisao Tupi	3	25/12.5
Televisao Bandeirantes	13	25/12.5
Radiodifusora de Sao Paulo, S.A.	7	25/12.5
Televisão Gazeta	25/12.5	
Televisão Gazeta	2	25/12.5
Televisão Cultura	11	25/12.5
Televisão Excelsior	9	25/12.5
Televisão Record	7	0.25/0.25
Radio Televisão Paulista, S.A.	5	25/12.5
PIRACICABA		
Televisão Record	25	50/25
Radio Televisão Paulista S.A.	19	50/25
Televisão Difusora Sao Paulo	31	50/50
VALINHOS		
Televisão Record	22	50/25
Radio Televisão Paulista S.A.	28	50/25
Televisão Difusora Sao Paulo	18	50/50
SANTOS		
Televisão Difusora Sao Paulo	8	10/10
BELO HORIZONTE		
Radio Televisão Itacolmi (R. Guarami S.A.)	4	10/10
R. Inconfidencia	2	10/10
CURITIBA		
R. Televisão S.A.	6	10/10
RECIFE		
Empresa Jornal do Comercio S.A.	2	10/10

1) Projected stations and 2) stations under construction.
Rio de Janeiro: **R. Nacional** (Go.) ch. A2 25/12.5 kW[2]), **Televisao Radio Pinto** (Go.) ch. A11 25/12.5 kW[2]). – São Paulo: **R. Gazeta** ch. A2[2]), **Santos: R.** Dif. de São Paulo S.A. ch. A8[2]). – Belo Horizonte: **R. Inconfidencia** (Go.) ch. A2[2]), **R. Nacional de Brasilia** (Go.) ch. A3[2]). **Goiania: R.** Dif. Televisora Anhanguera S.A. ch. A2[2]). – Porte Alegre: **R. Tnpi** S.A. ch. A4[2]). **Ribeirao Preto:** Emissoras Associadas S.A.[1]). – Rio de Janeiro/Itatiaia: **R. Tupi** S.A. ch. A33.

★ COLOMBIA ★

R. TELEVISORA NACIONAL (Go.). – **ADDR.:** Direccion General de la Radiotelevisora Nacional de Columbia, Bogota 10 ± 24–29, Aptado Nacional 1824 – Carrera 10 24–29. – **L.P.:** Dir. Gen.: F. R. Suarez. Dir. Tec. and For. Rel.: W. Puth.

STATIONS:	ch.	kW		ch.	kW
Bogota HJRN-TV	A9	40/20	Tunja	A10	20
Medellin	A6	25/12.5d²)	Cali	A7	50/25
Manizales	A11	40/20 d.	Manjui	A7	400/200²)
Alto Magdalena	A7	40/20³)	Madrono	A9	80/40
El Quindio	A9	40/20	Valle del Cauca¹)	A7	60/30
Boyaca¹)	A10	20/10	Paz del Rio	A11	40/20
			Bucaramanga¹)	A10	

¹) Satellite stations, ²) Exp., ³) relay.

Under construction: C. Quemado ch. A4 900/400 kW – **Carmen de Bolivar** ch. A11 10/5 kW – **Monteria** ch. A7 100/50 kW – **Las Jurisdicciones** ch. A2 300/150 kW – **El Carmen** ch. A13 25/12 kW – **Neiva** ch. A9 80/40 kW – **Munchique** 40/20 kW – **Purace** ch. A11 40/20 kW – **Galeras** ch. A2 5/2.5 kW.

D. PRGR.: Mo.-Fri.: 23.20 (Sat. 21.30, Sun. 19.10)–04.00.

★ ECUADOR ★

THE VOICE OF THE ANDES (HCJB) is waiting for a permit from the government to begin telecasting.

★ PERU ★

CULTURAL:

MINISTRY OF EDUCATION, Lima. – **L.P.:** Dir. Eng.: A. E. Mousalve M. Dir. Tec.: S. Romero C. - **Station:** OAD-TV7. - **D. Prgr.:** D. 18.00–20.00. Ch. A7 0.1/0.05 kW.

COMMERCIAL:

R. EL SOL, Av. Uruguay 355, Lima. – **L.P.:** Dir. Gen.: Eng. A. Pereyra. Dir. Prod.: A. Goicochea Luna. – **Station:** Ch. A9 10/5 kW.

R. PANAMERICANA, Casilla 4392, Lima. – **L.P.:** Dir. Gen.: G. Delgado Parker. – **Station:** Ch. A13 4/2 kW.

R. AMERICA, esquina de Montero Rosas y Mariano Carranza, Lima. – **Station:** Ch. A4 4/2 kW.

PROJECTED STATIONS: R. Nacional (Go.) ch. A9 – R. Emisoras Nacionales – R. Victoria – R. Excelsior.

★ URUGUAY ★

SAETA (Soc. Anonima Emisoras de Tele y Anexos). **ADDR.:** Mercedes 973, Montevideo. – **STATION:** CXA-TV ch. A10 20/10 kW; 21.00–02.00.

RADIO MONTE CARLO: Ch. A4 25/12.5 kW., under construct.

★ VENEZUELA ★

TELEVISORA NACIONAL (Go.), Cerro Marin, Caracas. – **Station:** YVKA-TV ch. A5 37.2/18.6 kW. – **D. Prgr.:** 22.00–03.30.

TELEVISA VENEZOLANA (Comm.), Av. S. Juan Francisco de la Salle, La Colina Caracas. – **Stations:** YVLV-TV: Caracas ch. A4 15/7.5 kW. **Valencia:** ch. A11 0.33/0.16 kW. La Guaira ch. A9 3.3/1.6

RADIO CARACAS-TV (Comm.) Ed. R. Centro, Earcenas a Rio, Caracas. – **L.P.:** Dir. Gen.: A. Espina. Dir. Tec.: J. Marcano C. Dir. Publ. Rel.: F. Cardona M. – **D. Prgr.:** A. Ferrara. – **Stations: Caracas:** YVKS-TV ch. A2 62/31 kW – **Curimagua:** ch. A10 330/165 kW – **Maracaibo** ch. A2 500/250 kW – **Carabobo** ch. A7 12.8/6 6 kW – **La Guaira** ch. A7 10/5 kW – **Barquisimeto** ch. A2 0.5/0.25 kW – Puerto La Cruz ch. A7 – **Valencia-Maracay** ch. A7 13/6.5 kW. All st's. satallite to Caracas YVKS-TV.

ONDAS DEL LAGO (Comm.) Maracaibo. – **L.P.:** Dir. Gen.: Pres. N. Vale. Dir. Tec.: I. Salcedo. – **Station:** Maracaibo ch. A13 12/6 kW. – **D. Prgr.:** 22.30–03.30.

RADIO VALENCIA (Comm.), Valencia Estado Carabobo. – **L.P.:** Dir.: T. Gubaira. Dir. Prod.: R. Bernal. – **Station:** ch. A3 4/2 kW. – **D. Prgr.:** D. 22.30–04.30.

COOPERATING SHORTWAVE CLUBS

Denmark: "Denmarks Shortwaveclub", Box 341, Aarhus (Publ.: "Shortwave-News"). – **Finland: Finlands DX-Club** r.f. Poste Restante, Helsingfors (Publ.: Attention, monthly. Swedish). Dx-prgr. from Finlands Broadcasting. (See Finland). Membership 15 IRC. 200 members. Sce.: Log-, reportsheets (English, Spanish), Diplcms. **Västra Nylands DX-Klubb**, Kungsg. 11, Ekenäs (Publ.: Här VNDXK, Swedish). **DX Kerho Suomi**, Poste Restante, Helsinki. – **France: Club des Auditeurs de la Radio Mondiale**, 79 Av. Paul Vaillant – Couturier, Vitry – sur – Seine (Pub.: La Radio Mondiale). - **Gt. Britain: The Bradford DX-Club**, 314 Dudley Hill Rd., Bradford 2, Yorkshire (Pub.: Bradford DX-news). **International Short Wave Club**, 100 Adams Gardens Estate, London SE 16 (Publ.: International Short Wave Radio). **The International Short Wave League**, 86, Barrenger Road, London N 10 (Publ.: Monitor). – **Japan: Japanese Short Wave Club**, Box 29, Sendai (Publ.: SW-DX Guide). – **New Zealand: N.Z DX Radio Association** (Inc.), Headquarters: 78 District Road, Green Island, Dunedin (Publ.: "Tune In": 58 Argyle St., Dunedin W1.) **N.Z. Radio DX League**, Adm. Office: 22 Kilgour Str., Dunedin, NW1 (Publ.: "New Zealand DX Times", 9 Mulford Str., Concord, Dunedin, SW2). – **Norway: Nötteröy DX-Club**, Nötteröy (Publ.: DX-News). – **Sweden: DX-Alliansen**, Post Box 272 C, Hilleby. **Dalecartian DX-Club**, Borlänge I (Publ.: Vågbrytaren). **Gävleborgs DX-Förbund**, Hudiksvall (Pub.: The DX-Voice of Tellus). Affiliated DX-Clubs: Gefle DX-Club. Hofors DX-Club. Bollnäs DX-Club. DX-klubben Tellus. **Göteborgs DX-Klubb**, Intagsgatan 8 n.b. Göteborg (Publ.: GDX-aren). **Otterhällans DX-Klubb**, Såggatan 71, Göteborg (Publ.: ODXK, Lars Kaggsgatan 28B, Göteborg N.). **Sydsveriges DX-Förbund**, Box 69, Västra Torup (Publ.: Eter-aktuelt). Affiliated DX-Clubs: Swedish Allround Radio Club, Höör. Svalans DX-Club, Hälsingborg. Radioklubben Dipol, Skillingaryd. DX-Club 57, Nässjö. Malmö Kortvagsklubb, Malmö (Publ.: Malmö DX-aren). Osby Radio Club, Osby. Sundets DX-Club, Landskrona. Göinge DX-Club, Västra Torup. **Västerhottens DX Förbund**, Box 19, Skellefteå 1 (Fubl.: Substancial). Affiliated DX-Clubs: Skellefteå DX-Club. Moröns DX-Club. Umeå DX-Club. Åskilje DX-Club. Vilhelmina Radioklubb. Burträsk DX-Club (Olof Lindberg). Hörnefors DX-Club. **Sveriges Radioklubb**, Box 5083, Stockholm 5. (Publ.: DX-Radio). – **U.S.A.: Newark News Radio Club**, 215, Market Street, Newark 1, N.J. (covers all DX-SW., Ham., B.C.B. – **National Radio Club**, 325 Shirley Ave., Buffalo 15, N.Y. (BCB only). – **Universal Radio DX Club**, 21446 St., Hayward Calif. (Publ.: Universalite). Covers SW., Ham. **The American Ionosphere Propagation Association (AIPA)**, P.O.Box 201, Loma Linda, Cal. Devoted entirely to TV.DX.

Adv.

THE DANISH SHORTWAVE CLUB

publishes "SHORTWAVE NEWS"-monthly. It contains the latest short wave news and articles about sw-listening. Membership fee per year: 10. Danish kr. 6,50. Swedish Cr. or 16 IRC's, Payment to T. Sørensen, Ormslev. Postgiro 103409. Write to THE DANISH SHORTWAVE CLUB, HQ: P. O. Box 341, Aarhus, Denmark.

Adv.

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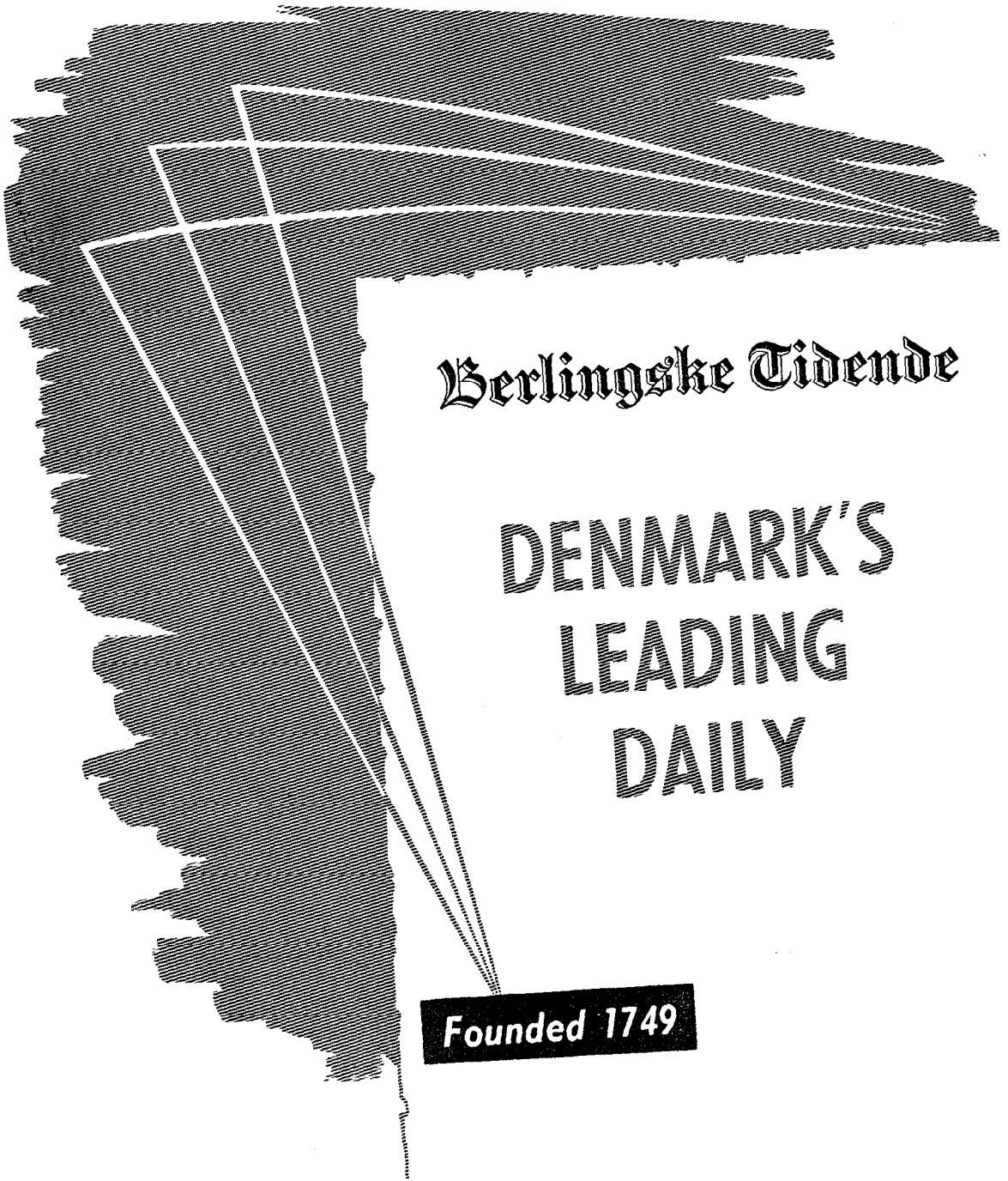
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LONG- AND MEDIUM WAVE STATIONS

EUROPE — NORTH AFRICA — NEAR EAST

For medium waves of the other countries see the individual countries.

Alg. = Algeria; Az. = Azores; Aust. = Austria; Belg. = Belgium; Bulg. = Bulgaria; C. Isl. = Canary Islands; Cyp. = Cyprus; Czecho. = Czechoslovakia; Den. = Denmark; F. = France; Faeroe. = Faeroe Islands; Finl. = Finland; G. = Germany; Gr. = Greece; Gt. Br. = Great Britain; Holl. = Holland. Hung. = Hungary; Icel. = Iceland; It. = Italy; Mon. = Monaco; Mor. = Morocco; No. = Norway; Port. = Portugal; Rum. = Rumania; REM = Red de Emisoras del Movimiento; Sp. = Spain; Sw. = Sweden; Switz. = Switzerland; Yugosl. = Yugoslavia.

kc/s	Metres	kW	Stations
151	1987	500	**Moscow I** - USSR
—	1987	50	**Hamburg** - G.
155	1935	10	**Tromsø** - No.
—	1935	150	**Brasov** - Rum.
164	1829	250/500	**Allouis** - F.
—	1829	250/500	**Tashkent** - USSR
173	1734	1000	**Munich (VOA)** - G.
—	1734	500	**Moscow I** - USSR
182	1648	100	**Reykjavik** - Icel.
—	1648	10	**Luleå** - Sw.
—	1648	120	**R. Ankara** - Turkey
—	1648	400	**R. Europe I** - Saar
—	1648	10	**Alma Ata** - USSR
185	1622	100	**Deutschlandsender** (DDR) - G.
191	1571	35	**Tblilisi** - USSR
—	1571	150	**Motala** - Sw.
200	1500	100	**Moscow II** - USSR
—	1500	400	**Droitwich** - Gt. Br.
209	1435	150	**Kiev I** - USSR
218	1376	35	**Baku** - USSR
—	1376	200	**Oslo** - No.
227	1322	500	**Warsaw I** - Poland
233	1287	500	**Luxembourg I**
236	1271	100	**Leningrad I** - USSR
245	1224	150	**Kalundborg I** - Den.
254	1181	200	**Lahti** - Finl.
263	1141	150	**Moscow II** - USSR
272	1102.9	200	**Praha II** - Czecho.
281	1038	100	**Minsk** - USSR
340	882.4	100	**Moscow II** - USSR
365	820	20	**Moscow II** - USSR
385	779	50	**Kharkov** - USSR
—	779	20	**Moscow II** - USSR
400	750	50	**Minsk** - USSR
—	750	50	**Tashkent I** - USSR
420	714	10	**Östersund** - Sw.
433	693	10	**Oula** - Finl.
511	587	0.25	**Sulitjelma** - No.
520	577	2	**Braunschweig** - G.
—	577	1	**Joensuu** - Finl.
—	577	0.2	**Bayreuth (BR)** - G.
—	577	5	**Nürnberg (BR)** - G.
—	577	0.2	**3 low power** - G.
—	577	5	**Cottbus (DDR)** - G.
—	576.9	0.05	**Landeck** - Aust.
—	576.9	10	**Aldrans II** - Aust.
—	576.9	10	**Lienz II** - Aust.
529	561.1	20	**Berlin (DDR)** - G.
—	561.1	150	**Beromünster** - Switzerland.
539	556.5	135	**R. Kossuth** - Hung.
—	556.5	0.05	**Bayonne II** - F.
548	547.4	100	**Odessa** - USSR
—	547.4	100	**Moscow II** - USSR
—	547.4	100	**Munich (AFN)** - G.
557	539	100	**Helsinki I** - Finl.
—	538.6	50	**Cairo III** - Egypt.
—	538.6	1	**Timisoara** - Rum.
—	538.6	50	**M. Ceneri** - Switz.
—	538.6	20	**Potsdam (DDR)** - G.
—	538.6	1	**Guarda** - Portugal
—	538.6	10	**Stalingrad** - USSR
566	530	100	**Athlone** - Ireland
—	530	10	**Caltanissetta** - It.
—	530	20	**Freies Berlin** - G.
—	530	0.1/0.05	**11 low power** - Aust.
575	522	100	**Mühlacker(SDR)** - G.
—	522	100	**Riga** - USSR
—	521.7	120	**Leipzig (DDR)** - G.
—	521.7	50/10	**Tel Aviv** - Israel
584	514	1	**Paris III** - F.
—	513.7	1	**Sfax II** - Tunisia
584	513.7	25	**Klagenfurt** - Aust.
—	513.7	10	**Salzburg II** - Aust.
—	513.7	150	**Wien II** - Aust.
—	513.7	120	**Madrid (RNE)** - Sp.
593	505.9	150	**Sundswall** - Sw.
—	505.8	100	**Frankfurt (HR)** - G.
—	505.8	20	**R. Africa** - Tanger
—	505.8	20	**Meissner (HR)** - G.
—	505.8	60	**Sofia II** - Bulg.
602	498.4	20	**Karl-Marx-Stadt (DDR)** - G.
—	498.4	2	**Damascus** - Syria
—	498	100	**Lyon I** - F.
606	495	20	**Nicosia** - Cyprus
610	491.8	2	**R. Bahrain**
611	491	10	**Nürnberg/Grafenwöhr/Kaisersl.** - G.
—	491	140	**Sebaa-Aioun** - Mor.
—	491	5	**Eidar TFE** - Icel.
—	491	500	**Berliner Rundfunk I (DDR)** - G.
—	491	100	**Petrozavodsk** - USSR
—	491	100	**Sarajevo** - Yugosl.
620	483.9	300	**Cairo IV** - Egypt.
—	483,9	0.25	**Tehran (AFRS)** - Iran
—	483.9	150	**Bruxelles I** - Belg.
629	477	100	**Vigra I** - No.
—	476.9	100	**Tunis I** - Tunesia
—	496.9	25	**Aldrans I** - Aust.
—	476.9	25	**Lauterach I** - Aust.
—	476.9	1	**Lienz I** - Aust.
638	470.5	100	**BBC** - Cyprus
—	470.5	5	**Sevilla (RNE)** - Sp.
—	470.2	120	**Praha I** - Czecho.
640	468.8	1	**R. Tabriz** - Iran
647	463.6	100	**Simferopol** - USSR
—	464	150	**Daventry** - Gt. Br.
—	464	2	**6 low power** - **Gt. Br.**
652	460	0.8	**Tel Aviv** - Israel
656	457.3	20	**Bolzano I** - It.
—	457.3	180	**Firenze I** - It.
—	457.3	80	**Napoli I** - It.
—	457.3	35	**Torino I** - It.
—	457.3	10	**Venezia I** - It.
—	457.2		**Greifswald (DDR)**
—	457.3	150	**Murmansk** - USSR
660	454.5	20	**R. Kabul** - Afghan.
665	451.2	15	**Athens III** - Gr.
—	451.2	1	**Hoefn** - Icel.
—	451.2	50	**Damascus** - Syria
—	451	20	**Bad Dürrheim** - G.
—	451	135	**Lisboa I** - Port.
—	451	100	**Vilnius I** - USSR
674	445.1	10	**Bodö** - No.
—	445.1	50	**Tjernovtsy** - USSR
—	445	150	**Rennes I** - F.
—	445	0.1/0.05	**7 low power** - Aust.
677	443	20	**Jerusalem** - Jordan
683	439	150	**Belgrade I** - Yugosl.
—	439	150	**Berlin/Hof (RIAS)**
—	439	150	**R. Madrid** - Sp.
692	434	20	**Moscow II** - USSR
—	434	2	**Cromer** - Gt. Br.
—	434	2.5	**La Coruña** - Sp.
—	434	20	**Nicosia** - Cyprus
—	433.8	20	**Erfurt (DDR)** - G.
—	434	150	**Moorside Edge** - Gt. Br.
—	434	2	**Whitehaven** - Gt.Br.
—	434	0.1/0.05	**10 low power** - Aust.
701	427.8	5	**Norden (NDR)** - G.
—	427.8	5	**Lingen (NDR)** - G.
—	428	2	**Aachen (WDR)** - G.
—	428	2	**Herford (WDR)** G.
—	428	150	**Istanbul** - Turkey
—	428	140	**Sebaa-Aioun** - Mor.
—	428	20	**Finmark** - No.
—	427.2	100	**Bratislava** - Czecho.
710	422	150	**Marseille I** - F.
—	422	100	**Stalino** - USSR
—	422.5	10	**Tallinn** - USSR
—	422.5	1	**Jerusalem** - Israel
719	417.2	135	**R. Free Europe** - G.
—	417.2		**Lamassol (FBS/BBC)** - Cyprus
—	417.2	25	**Porte II** - Port.
—	417.2	150	**Östersund** - Sw.
—	417.2	2	**Aleppo** - Syria
723	414	50	**Jeddah** - S. Arabia
728	412	25	**Klagenfurt I** - Aust.
—	412	150	**Athens I** - Gr.
—	412	20/220	**Schwerin (DDR)** G.
737	407.1	40	**Berlin/Hof** - G.
—	407.1	100/10	**Tel Aviv** - **Israel**
—	407.1	5	**Akureyri** - Icel.
—	407.1	300	**Poznan** - Poland
—	407.1	25	**Barcelona** - Sp.
—	407.1	20	**Moscow II** - USSR
742	404.4	1	**Touggourt** - Alg.
—	404.4	1	**Colomb Bèchar** Alg.
746	402	20	**Aleppo** - Syria
—	402	120	**Hilversum I** - Holl.
755	397.3	20	**Kuopio** - Finl.
—	397.3	50	**Timisoara I** - Rum.
—	397.3	135	**Lisboa II** - Port.
—	397.3	135	**R. Universidade** - Port.
—	397.3	2	**Siegen (WDR)** - G.
764	392.6	150	**Sottens** - Switz.
—	392.6	10	**Rostov-Don** - USSR
773	388.1	150	**Stockholm** - Sw.
—	388.1	2	**Malmberget** - Sw.
—	388.1	5	**Valencia** - Sp.
—	388.1	50	**Cairo I** - Egypt
—	388.1	1	**Salzburg I** - Aust.
—	388.1	0.1/0.05	**7 low power** - **Aust.**
782	383.6	250	**Deutschlandsender**
—	383.6	250	**R. Clube Portuguese** - Port.
—	383.6	100	**Kiev II** - USSR
—	383.6	2	**Vatican Radio**
791	379.2	100	**Limoges I** - F.
—	379.2	50	**Salonika** - Gr.
800	375	100	**München (BR)** - G.
—	375	0.25	**Alto Douro** - Port.
—	375	100	**Leningrad II** - USSR
—	375	5	**R. Sevilla** - Sp.
—	375	100	**Amman** - Jordan
809	371	100	**Burghead** - Gt. Bt.
—	371	5	**Redmoss** - Gt. Br.
—	371	2	**Dumfries** - Gt. Br.
—	371	100	**Westerglen** - Gr. Bt.
—	370.8	135	**Skoplje** - Yugosl.
—	370.8	10	**R. Barcelona** - Sp.
—	370.8	10	**Moscow II** - USSR
—	370.8	5	**Aden** - Aden
818	366.7	10	**Trieste I** - It.
—	366.7	300	**Cairo V** - Egypt
—	366.7	300	**Warszawa II** - Pol.
—	367	1	**Casablanca** - Mor.
—	367	1	**Oujda** - Mor.
—	367	100	**Andorradio**
827	363	10	**Gorkij** - USSR

kc/s	Metres	kW	Stations
827	363	100	**Sofia I** - Bulg.
—	363	20	**Tetuan** - Mor.
—	363	40	**Freiburg (SWF)** G.
—	363	0.5	**Koblenz (SWF)** - G.
—	363	20	**Moscow II** - USSR
—	363	2	**Kaiserl./Sigmar./ Trier (SWF)** - G.
—	363	3	**Baden-Baden (SWF)** - G.
836	359	10	**Ylivieska** - Finl.
—	359	150	**Nancy I** - F.
—	359	4	**Beyrouth** - Lebanon
—	359	20	**Kharkov** - USSR
845	355	0.2	**Helsinki III** - Finl.
—	355	150	**Roma II** - Italy
—	355	10	**Kazan** - USSR
850	352.9	5	**Huelva (RNE)** - Sp.
—	352.9	2	**R. Huelva** - Sp.
854	351.3	150	**Bucuresti I** - Rum.
—	351	7.5	**R. Madrid EAJ2**
—	351	20	**Berlin (RIAS)** - G.
863	348	150	**Paris I** - F
—	347.5	—	**Erevan**, USSR
872	344	150	**Frankfurt AFN** - G.
—	344	20/50	**R. Petöfi II** - Hung.
—	344	30	**R. Zaragoza** - Sp.
—	344	150	**Moscow III** - USSR
881	340.5	20	**Titograd** - Yugosl.
—	340.5	100	**Deutschlandsender**
—	341	8	**Penmon** - Gt. Br.
—	341	5	**Towyn** - Gt. Br.
—	341	2	**Wrexham** - Gt. Br.
—	341	100	**Washford** - Gt. Br.
—	341	—	**Stavropol** - USSR
890	337.1	200	**Alger I** - Algeria
—	337.1	15	**Linz I** - Austria
—	337.1	20	**Bergen I** - No.
—	337.1	20	**Kristianssand** - No.
—	337.1	20	**Tröndelag** - No.
—	337.1	20	**Uzjgorod** - USSR
895	335	50	**R. Iran** - Iran
899	333.7	150	**Milano I** - It.
900	333	0.3	**Limassol** - Cyp.
908	330	140	**Brookmanns Park** - Gt. Br.
—	330	200	**R. Baghdad** - Iraq
—	330	1	**Cluj** - Rumania
912	328.9	20	**Reichenbach (DDR)** - G.
915	326	2	**Paphos** - Cyp.
917	327.2	5	**Tetuan** - Mor.
—	327.2	0.25	**Rabat** - Mor.
—	327.2	135	**Ljubljana I** - Yugos.
926	324	100	**Bruxelles II** - Belg.
—	324	100	**Cairo II** - Egypt
—	324	10	**Nis** - Yugosl.
935	321	125/200	**R. Africa Maghreb** Tangier
—	321	100	**Lvov** - USSR
—	321	10	**Berlin AFN** - G.
944	318	100	**Toulouse I** - F.
953	314.6	20	**R. Intercontinental** - Sp.
—	314.6	100/30	**Praha I** - Czecho.
962	312	100	**Turku I** - Finl.
—	312	100	**Tunis II** - Tunisia
—	312	5	**Paris IV** - F.
971	309	5	**Göttingen (NDR)** G.
—	309	100	**Hamburg (NDR)** G.
—	309	100	**Langenberg** - G.
—	309	20	**Smolensk** - USSR
—	309	50	**Odessa** - USSR
980	306.1	200	**Alger II** - Alg.
—	306.1	2	**Assiout** - Egypt.
—	306.1	2.5	**Trieste A** - It.
—	306.1	150	**Göteborg** - Sw.
989	303.3	300/200	**Berlin RIAS** - G.
—	303.3	8	**R. Malaga** - Sp.
—	303.3	-10	**Beirouth** - Libanon
998	300.6	10	**Heidelberg (SDR)** G.
—	300.6	0.2	**Buchen (SDR)** - G.
—	300.6	100	**R. Andorra**
—	300.6	100	**Kishinjov** - USSR
1007	298	120	**Hilversum II** - Holl.
—	298	50	**Corfu** - Gr.
1007	298	6	**R. Málaga** - Sp.
1016	295	120	**Rheinsender (SWF)** G.
—	295	1	**Tanger** - Mor.
—	295	20	**Odessa** - USSR
1022	293	100	**Madrid (RNE)** - Sp.
1025	292.7	1	**Agadir** - Mor.
—	292.7	100	**Dobl** - Aust.
—	292.7	100	**Kronstorf** - Aust.
—	292.7	10	**Lauterach II** - Aust.
—	292.7	0.5	**Haifa** - Israel
—	292.7	5	**R. S. Sebastian** - Sp.
—	292.7	—	**Aden** - Aden
1034	290.2	0.25	**Ansbach/Bad Kissingen (AFN)** - G.
—	290.1	20	**Milano II** - It.
—	290.1	25	**Venezia II** - It.
—	290.1	10	**Genova II** - It.
—	290.1	5	**San Remo II** - It.
—	290.1	5	**Pescara II** - It.
—	290.1	25	**Napoli II** - It.
—	290.1	100	**Tallinn I** - USSR
—	290.1	25	**Parede** - Port.
1043	287.6	20	**Rabat** - Mor.
—	287.6	2	**Salonika** - Gr.
—	287.6	240	**Dresden (DDR)** - G.
—	287	—	**Tbilisi** - USSR
1052	285.3	0.05	**2 low power** - Aust.
—	285.3	2	**Barnstaple** - Gt. Br.
—	285.3	120	**Start Point** - Gt. Br.
—	285.3	20	**Bucuresti II** - Rum.
—	285.1	50	**R. Tripoli** - Libya
—	285.1	20	**Suhl (DDR)** - G.
1061	283	25	**Norte I** - Port.
—	283	60	**Kalundborg II** - Denmark
—	283	20	**Cagliari I** - It.
1070	280	100	**Paris II** - F.
—	280	20	**Marseille II** - F.
—	280	20	**Bordeaux II** - F.
—	280	20	**Dnjepropetrovsk** - USSR
1079	278	10	**R. Tanger Internat.**
—	278	2	**Minia** - Egypt
—	278	2	**Luxor** - Egypt
—	278	2	**Bremerhafen** - G.
—	278	60	**Katowice** - Poland
—	278	20	**Plauen (DDR)** - G.
—	278	1/0.2	**5 low power** - Sp.
—	278	5	**La Voz de Levante (REM)** - Sp.
—	278	5	**La Voz de Vigo** - Sp.
1086	276	1	**Nicosia** - Cyp.
1088	276	150	**Droitwich** - Gt. Br.
—	276	7.5	**Postwick** - Gt. Br.
—	276	50	**Tirana** - Albania
1097	273.5	150	**Bratislava** - Czecho.
1106	271.2	100	**Stuttgart (AFN)** G.
—	271.2	2/0.08	**10 low power** - Sp.
—	271.2	100	**Mogilev** - USSR
—	271.2	100	**Vilnius II** - USSR
1115	269.1	50	**Bologna II** - It.
—	269.1	5	**Messina II** - It.
—	269.1	2	**Trieste II** - It.
—	269.1	1	**Aosta II** - It.
—	269.1	40	**Bari II** - It.
—	269.1	10	**Pisa II** - It.
—	269.1	0.3/0.02	**5 low power** - No.
—	269.1	1	**Bergen II** - No.
—	269.1	1	**Namsos** - No.
—	269.1	1	**Notodden** - No.
1124	266.9	3	**Barcelona** - Sp.
—	266.9	0.1/0.5	**8 low power** - Aust.
—	266.9	20	**Leningrad III** - USSR
—	266.9	10	**Bruxelles IV** - Belg.
—	266.9	5	**Varna** - Bulg.
1128	266	5	**Panamerican Radio** Tangier
—	264.8	15	**Rijeka** - Yugosl.
1133	264.8	2	**Bilbao EAJ28** - Sp.
—	264.8	135	**Zagreb I** - Yugosl.
1130	265	1	**R. Kuwait** - Kuwait
1142	262.7	20	**Constantine I** - Alg.
—	262.7	20	**Les Trembles** - Alg.
1142	262.7	0.05	**Rottenmann** - Aust.
—	262.7	0.25	**3 low power AFN** G.
—	262.7	5	**Bremerhafen (AFN)** G.
—	262.7	2	**Sohag** - Egypt.
—	262.7	20	**Kaliningrad** - USSR
1151	261	100	**Lisnagarvey** - Gt.Br.
—	261	2/0.25	**2 low power** - Gt.Br.
—	261	100	**Stagshaw** - Gt. Br.
—	260.9	30	**Oradea** - Rum.
—	260.9	0.3	**R. Manises** - Sp.
1160	259	150	**Strasbourg I** - Fr.
1169	256.6	10	**R. Renascensa** - Port.
—	256.6	6	**Koper** - Yugosl.
—	256.6	3	**Ulm (SDR)** - G.
—	256.6	10	**Heilbronn (SDR)** G.
—	256.6	1	**Salonica (FBS)** - Gr.
—	256.6	150	**Kiev** - USSR
—	256.6	1	**Jerusalem** - Israel
1178	254.7	100	**Hörby** - Sw.
—	254.7	2	**Assouan** - Egypt.
—	254.7	5	**Cuenca (RNE)** - Sp.
1186	253	0.06	**Megara** - Greece
1187	252.7	135	**Petöfi I** - Hung.
—	252.7	1	**Casablanca** - Mor.
1196	251	150	**Munich (VOA)** - G.
—	251	2	**Bernburg (DDR)** G.
1205	249	100	**Bordeaux I** - F.
—	249	10	**Haifa** - Israel
—	249	300	**Poznán** - Poland
1214	247	50	**Brookmans Park** - Gt. Br.
—	247	20	**Burghead** - Gt. Br.
—	247	10	**Lisnagarvey** - Gt. Br.
—	247	50	**Moorside Edge** - Gt. Br.
—	247	50	**Westerglen** - Gt. Br.
—	247	2/0.25	**5 low power** - Gt.Br.
—	247	5	**Tallinn II** - USSR
—	247	20	**Kursk** - USSR
1223	245.3	20	**La Voz de Madrid**
—	245.3	20	**Stara Zagora** - Bul.
—	245.3	100	**Falun** - Sw.
1232	243.5	50/120	**R. Tanger** - Tangier
—	243.5	100	**Bratislava** - Czecho.
—	243.5	150	**Moscow III** - USSR
1236	242.7	0.05	**Sparta** - Gr.
1241	242	25	**Vaasa** - Finl.
—	242	20	**Lille II** - F.
—	242	20	**Lyon II** - F.
—	242	20	**Nancy II** - F.
—	242	20	**Nice III** - F.
—	242	20	**Pau** - F.
—	242	20	**Brest I** - F.
—	242	20	**Rennes II** - F.
—	242	20	**Tiraspol** - USSR
1248	240	1.2	**R. Juventud** - C. Isl.
1250	240	5	**Dublin, Cork** - Eire
—	240	135	**Balatonszabadi** - Hung.
—	240	2/0.2	**11 low power** - Sp.
1258	238	0.35	**R. Asturias** - Sp.
1259	238.3	150	**Courier (VOA)** - Gr.
—	238.3	5	**R. Valencia** - Sp.
—	238	50	**Wroclaw** - Poland
1268	236.6	100	**Novi Sad** - Yugosl.
—	236.6	2	**R. Asturias** - Sp.
1276	235	1	**La Voz de Valladolid** - Sp.
1277	234.9	10	**Alexandria** - Egypt
—	234.9	100	**Strasbourg II** - F.
—	234.9	1	**Tel Aviv** - Israel
1286	233	100	**Praha II** - Czecho.
—	233	2	**R. Renascenca** - Port.
1295	231.7	100	**Norden Osterloog** - G. (BBC European)
—	231.7	0.25	**Rabat** - Mor.
—	231.7	1	**Agadir** - Mor.
—	231.7	2	**R. Coruña** - Sp.
1300	230.7	1	**Athens (FBS)** - Gr.
1304	230	20	**Constantine II** - Alg.
—	230	20	**Les Trembles** - Alg.

kc/s	Metres	kW	Stations
1304	230	0.25/1	**6 low power AFN** -
—	230	5	**VozdeGuipuzcoa** Sp.
—	230	5	**Szczecin** - Poland
—	230	30	**Gdansk** - Poland
1313	228.5	100	**Stavanger** - No.
—	228.5	2	**R. Las Palmas** - C. Isl.
1322	226.9	100	**Leipzig** - G. (Rel. R. Moscow)
—	226.9	0.15	**R. Ribatejo** - Port.
—	226.9	100	**Kharkov II** - USSR
1331	225.4	1/2	**4 low power st.** - It.
—	225.4	80	**Roma I** - It.
—	225.4	50	**Genova 1** - It.
—	225.4	25	**Bologna I** - It.
—	225.4	25	**Pescara I** - It.
—	225.4	20	**Bari I** - It.
—	225.4	12	**Palermo I** - It.
—	225.4	2	**R. Salamanca** - Sp.
1336	226.6	1	**Haifa** - Israel
1340	223.8	2	**R. Teheran** - Iran
—	223.8	25	**Nyiregyháza,** Hung.
—	223.8	25	**Szombathely,** Hung.
—	223.8	15	**Pécs** - Hung.
—	223.8	0.4	**2 low power** - Hung.
—	223.8	150	**Crowborough** - Gt.Br.
1344	224	5	**R. Kuwait** - Kuwait
1349	222.4	10	**Nantes I** - F.
—	222.4	20	**Clermont** - F.
—	222.4	20	**Limoges II** - F.
—	222.4	20	**Grenoble I** - F.
—	222.4	20	**Toulouse II** - F.
—	222.4	20	**Valmiera** - USSR
—	222.4	20	**Kuldiga** - USSR
—	222.4	20	**Riga II** - USSR
—	222.4	0.2	**Korça** - Albania
1358	221	1/0.1	**2 low power** - Port.
—	221	20	**Bremen** - G.
—	221	2/0.1	**10 low power** - Sp.
—	221	5	**La Voz de Navarra (REM)** - Sp.
1367	219.5	2/0.1	**9 low power** - It.
—	219.5	25	**Venezia III** - It.
—	219.5	12	**Napoli III** - It.
—	219.5	10	**Milano III** - It.
—	219.5	10	**Genova III** - It.
—	219.5	5	**Roma III** - It.
—	219.5	5	**Torino III** - It.
—	219.5	5	**Thorshavn** - Faeroe
—	219.5	0.5	**Basel/Coire/Sool** - Switzerland
—	219.5	10	**Porto** - Port.
1375	218	2	**R. Zamora** - Sp.
1376	218	150	**Lille I** - F.
1385	217	150	**Kaunas** - USSR
—	217	50	**Athens II** - Gr.
—	217	1.25	**Amalias** - Gr.
—	217	2/0.04	**7 low power** - Sp.
1390	215.8	1	**Jerusalem** - Israel
—	215.8	5	**R. Badajoz** - Sp.
1394	215.2	7.5	**Tripoli (FBS)** - Libya
—	215.2	25	**Graz I** - Aust.
—	215.2	0.25	**Bitburg AFN** - G.
—	215.2	2/0.15	**12 low pover** - Sw.
—	215.2	0.15	**Angra do Heroismo** Az.
1403	213.8	2/0.4	**2 low power** - Sp.
—	213.8	10	**Montpellier I** - F.
—	213.8	20	**Rouen** - F.
—	213.8	20	**Nice II** - F.
—	213.8	20	**Brest II** - F.
—	213.8	5	**Comotini** - Gr.
—	213.8	20	**Tartu** - USSR
1408	213	5	**R. Oviedo** - Sp.
1412	212.4	3	**Bad Mergentheim (SDR)** - G.
—	212.5	2	**2 low power** - Sp.
—	212	5	**Maribor** - Yugosl.
1412	212	20	**Pristina** - Yugosl.
—	212	50	**Split** - Yugosl.
—	212	0.4	**Club Tenerife** C. Isl.
1420	211	1	**R. Almeria** - Sp.
1421	211.2	0.05	**Sfax I** - Tunesia
—	211.1	5	**Tjernigov** - USSR
—	211.1	100	**R. Saarbrücken** - G.
—	211.1	1	**Tampere** - Finl.
1428	210	0.4	**R. Luarca REM** Sp.
1430	210	10	**Copenhagen** - Den.
—	210	5	**R. Mallorca** - Sp.
—	219	70	**Skive** - Den.
1439	208	350	**Luxembourg II**
1440	208.5	1	**R. Sagunto** - Sp.
1448	207.2	20	**Torino II** - It.
—	207.2	12	**Palermo** - It.
—	207.2	5	**Ancona II** - It.
—	207.2	5	**Catania II** - It.
—	207.2	5	**Firenze II** - It.
—	207.2	5	**Sassari II** - It.
—	207.2	1/0.25	**25 low power** - It.
—	207.2	2	**5 low power** - Sp.
—	207.2	2/0.15	**6 low power** - Sw.
—	207.2	1	**Coimbra** - Port.
1450	207	2	**R. Jaen** - Sp.
1457	206	40	**Algier III** - Alg.
—	206	0.05	**3 low power** - Aust.
—	206	2	**Redruth** - Gt.Br.
—	206	20	**Clevedon** - Gt.Br.
—	206	10	**Bartley** - Gt.Br.
—	206	1	**Brighton** - Gt. Br.
—	206	1	**Folkestone** - Gt.Br.
—	206	2	**Bexhill** - Gt.Br.
—	205.9	20	**Craiova** - Rum.
1466	205	400	**Monte Carlo** - Mon.
—	204.6	1/0.25	**6 low power** - Nor.
1470	204	0.8	**R. Avila** - Sp.
1475	203.4	2	**2 low power** - Sp.
—	203	150	**Wien I** - Aust.
1480	203.4	2/0.07	**10 low power** - Sp.
1484	202.2	0.2	**St. Pölten** - Aust.
—	202.2	0.2	**Bone** - Alg.
—	202.2	2	**Copenhagen I** - Den.
—	202.2	0.25	**Ålborg** - Den.
—	202.2	0.25	**Tønder** - Den.
—	202.2	2	**Helsinki II** - Finl.
—	202.2	1	**Pietarsaari** - Finl.
—	202.2	1	**Pori** - Finl.
—	202.2	0.2	**Tammissaari** - Finl.
—	202.2	0.2	**Turku II** - Finl.
—	202.2	1/0.05	**8 low power** - F.
—	202.2	0.5	**R. Gibraltar**
—	202.2	5	**Brasov** - Rum.
—	202.2	1/0.1	**2 low power** - Port.
—	202.2	2	**Barrow** - Gt.Br.
—	202.2	2	**Ramsgate** - Gt.Br.
—	202.2	1	**Cardiff** - Gt.Br.
—	202.2	0.25	**Stockton** - Gt.Br.
—	202.2	0.2	**Volos** - Gr.
—	202.2	5	**Freies Berlin** - G.
—	202.2	0.2	**14 lowpower SDR** G.
—	202.2	0.25	**Keflavik (AFRS)** - Icel.
—	202.2	0.03	**Nordfjördur** - Icel.
—	202.2	2/0.1	**13 low power** - It.
—	202.2	1	**R. Club de Madeira**
—	202.2	0.25/0.025	**4 low power** - No.
—	202.2	8	**Lodz** - Poland
—	202.2	1	**Opole** - Poland
—	202.2	1	**2 low power (BR)** G.
—	202.2	0.25/0.15	**14 low power** - Sw.
—	202.2	5	**Vatican Radio**
—	202.2	2/0.5	**9 low power** - Yugosl.
—	202.2	2	**2 low power** - Sp.
—	202.2	3	**Praha I/II, Bratislava** - Czecho.
—	202.2	2	**Pavlolo** - Bulg.
1487	202.1	2	**R. Rioga** - Sp.
1490	201.1	0.8	**R. Alcoy** - Sp.
1493	201	2/0.2	**13 low power** - Sp.
—	201	1/0.05	**7 low power** - F.
—	201	5	**Gomel** - USSR
—	201	5	**Rhodes** - Gr.
—	201	0.05/0.035	**8 low power** - Aust.
1495	201	0.2	**R. Cadiz** - Sp.
1500	200	0.25	**AFRS** - Az.
—	200	0.5/0.04	**5 low power AFN** -
—	200	2	**R. Atlantico** - C. Isl.
1502	199.7	0.25/0.05	**5 low power AFN** G.
—	199.7	60	**Krakow** - Poland
—	199.7	0.8	**Münster (WDR)** G.
—	199.7	2	**3 low power** - Sp.
1504	199.6	0.2	**R. Leon** - Sp.
1510	198.5	1	**Tripoli (AFRS)** - Libya.
1511	198.4	4	**R. Murcia** - Sp.
—	198.4	20	**Bruxelles III** - Belg.
—	198.4	0.2	**Patras** - Gr.
—	198.4	5	**Chania** - Gr.
1512	198.2	0.1	**Port Lyauteau (AFRS)** - Mor.
1518	197.6	0.06	**R. Adra** - Sp.
1519	197	0.2	**R. Elche** - Sp.
1520	197.4	30	**Praha II** - Czecho.
1529	196.2	1.5/0.06	**3 low power** - Sw.
—	196.2	100	**Vatican Radio**
1538	195	40	**Ravensburg** - G.
—	195	10	**Reutlingen** - G.
1546	194	0.25/1	**10 synchr. low power** - Gt.Br.
—	194	5	**Vinnitsa** - USSR
1550	193.5	0.6	**R. Vich (REM)** - Sp.
1554	193.1	60	**Nice I** - F.
—	293.1	5	**Baranovitji** - USSR
1562	192.1	1	**Covilha** - Port.
—	192.1	2/0.25	**8 low power** - Sw.
1570	191.1	10	**Flensburg NDR** G.
—	191.1	5	**Michelet** - Alg.
—	191.1	0.5	**R. Tarragona** - Sp.
—	191.1		**Seelow (DDR)** - G.
—	191.1	0.25	**Diyarbakir (AFRS)** S. Arabia
1571	191	1	**Santa Maria** - Az.
1578	190.1	2/0.1	**17 low power** - It.
—	190.1	0.05	**R. Monovar** - Sp.
—	190.7	10	**Em. de Norte Reunidos** - Port.
—	191.1	10	**Fredriksstad** - Nor.
—	191.1	2	**Nordkapp** - No.
1586	189.1	5	**Kiel (NDR)** - G.
—	189.1	5	**Osnabrück (NDR** G.
—	189	5	**Bonn (WDR)** - G.
—	189	3	**Kleve (WDR)** - G.
—	189	40	**Hannover (NDR)** G.
—	189	40	**Oldenburg (NDR)** - G.
1590	188.7	0.5	**Athens (AFRS)** Gr.
1594	189	15	**Miskolc** - Hung.
—	189	0.4	**Magyaróvár** - Hung.
—	188.2	0.6	**Bougie** - Alg.
—	188	2	**Esbjerg** - Den.
—	188	0.05/1	**2 low power** - F.
—	188	5	**Hengelo** - Holl.
1594	188	5	**Hoogezand** - Holl.
—	188	5	**Hulsberg** - Holl.
—	188	1	**Em. Associados (Lisboa)** - Port.
—	188	0.1	**4 AFRS** - Mor.
—	188		**Pan American R.** - Tangier
—	188	0.15	**Funchal** - Madeira
—	188	2/0.1	**6 low power** - It.
—	188	0.15/0.075	**9 low power** - Sw.
1602	187	20/40	**Nürnberg I (BR)** G.
—	187	20	**Landau (BR)** - G.
—	187	20	**Kirchheim (BR)** G.
—	187	1	**3 low power (BR)** G.

SHORT WAVE STATIONS OF THE WORLD

Moscow frequencies are omitted from the list as they are changed very often. All the Moscow frenquencies reported are shown in the USSR. text – * Standard Frequency Station** Time Signal Station. Br. = Brazil, Cl. = Cultura, Col. = Colombia, Czecho. = Czechoslovakia, Ger. = Germany, Guat. = Guatemala, Hon. = Honduras, Isl. = Island, Venez. = Venezuela.

kc/s	m	kW	Call	Stations and countries	Rem.
2230	128.7	0.3	YDI	Djember, Indonesia	
	128.7	1	YDM6	Sibolga, Indonesia	
	128.7	0.25	ZYK30	R. Cultura, Brazil	
2340	128.2	0.5	ZYV30	R. Dif. Brasileira, Brazil	
2350	127.6	1	YDW	Pontianak, Indonesia	
	127.6	1	YDJ3	Jogjakarta, Indonesia	
	127.6	1	—	R. Dif. Amazonas, Brazil	
2360	127.1	1	YVQG	R. Carupano, Venezuela	
	127.1	1	—	R. Dif. do Maranhao, Brazil	
2380	126.0	0.35	XESE	Mexico, Mexico	
2390	125.5	0.1	YDN	Kotaradja, Indonesia	
	125.5	0.3	YDA6	Tjirebon, Indonesia	
	125.5	0.5	—	R. Cultura de Monte Brazil	
2400	125	0.5	—	R. Dif. de Amparo, Brazil	
2402	124.7	0.06	HJDT	R. Nutibara, Colombia	
2405	124.7	0.3		Seoul (VUNC) Korea	
2420	123.9	0.25	YDA2	Bandung, Indonesia	
	123.9	1	VDU7	Denpassar, Indonesia	
	123.9	0.25	—	R. Dif. do Maranhao, Brazil	
2430	123.5	1	YDK2	Palembang, Indonesia	
2440	122.9	1	YDG2	Surakarta, Indonesia	
	122.9	1	HI3C	La Romana, Dom. Rep.	
	122.9	1	YVLG	R. Girardot, Venezuela	
2442	122.9	0.5	4XB51	Tel Aviv, Israel	
2450	122.5	0.5	PRI8	R. Cultura de Aracatuba, Br.	
2460	121.9	1	YDB	Djakarta, Indonesia	
	121.9	1	YDZ	Ternate, Indonesia	
	122	0.5	ZYR99	R. Cacique, Brazil	
2470	121.5	1	YVMU	R. Carora, Venezuela	
	121.2		—	Chekiang, China	
2480	120.9	1	YDL2	Padang, Indonesia	
	121.0	1	YVMK	R. Cabimas, Venezuela	
2490	120.5	1	YDH	Semarang, Indonesia	
	120.5	0.3	YDQ4	Makassar, Indonesia	
*2500	120	0.5	MSF	Teddington, Gt. Britain	
*	120	1	WWV	Lanham, USA	
*	120	2	JJY	Tokyo, Japan	
*	120	2	LOL	B. Aires, Argentina	
*	120		HBN	Neuenburg, Switzerland	
2510	119.5	10	HLK50	Seoul, Korea	
2850	105.3	10		Pyongyang, Korea	
3202	93.69	2		Bangkok, Thailand	
3204	93.64	5		Ibadan, Nigeria	
3205	93.60	10	YDA	Bandung, Indonesia	
3214	93.34	1	YDS	Menado, Indonesia	
3215	93.30	3.5	BED59	Taipei (BCC), Taiwan	
3221	93.13	7.5	CR7BM	R. Clube de Mozambique	
3223	93.09	0.3	YDX	Tdj. Pinang, Indonesia	
3223	93.09	1	YDX	Mataram, Indonesia	
3225	93.02			Hunan, China	
3232	92.82	4		Tananarive, Madagascar	
3240	92.59	0.5	OBX4V	R. America, Peru	
3241	92.56	10	YDR3	Ambon, Indonesia	
	92.56	1	YDM7	Sibolga, Indonesia	
3245	92.45	1	YVKT	R. Libertador, Venezuela	
	92.44	0.5	HI1Z	Broadc. Nac., Dom. Rep.	
3250	92.31	10/50	HJGO	R. Sutatenza, Colombia	
	92.31	10	YDO	Bandjarmasin, Indonesia	
	92.31	5		R. Clube de Mozambique	
3255	92.15	2	ZFY	R. Demerara, Br. Guiana	
	92.15	0.5	YVQL	La Voz del Tigre, Venez.	
	92.15	0.3		Beira, Mozambique	
	92.17	0.5	ZYR62	R. Clube de Marilia, Brazil	
	92.16	0.04		R. Antigua, Leeward Isl.	
	92.17	10		Liberian Br. Corp., Liberia	
3259	92.05	0.3	YDV	Kupang, Indonesia	
	92.30	0.5	HRLP3	R. America, Hond. R.	
3260	92.02			Kweichow, China	
3265	91.87	1	YVOC	Ecos del Torbes, Venezuela	
	91.87	4	ZYR92	R. Ribeirao Preto, Brazil	
	91.87	1	ZYK21	R. Tamandaré, Brazil	
3270	91.74			Heilungkiang, China	
3275	91.60	1	YVMC	R. Mara, Venezuela	
	91.60	1	ZYR31	Bauru R. Clube, Brazil	
3277	91.55	1	YDD	Djakarta, Indonesia	
	91.55	0.3	DYB4	Dumaguete City, Philipp.	
3285	91.32	1	HI7T	La Voz Dominic. Dom. Rep.	
	91.32	0.1	ZYR44	R. Aparecida, Brazil	
	91.32	1	YVLE	R. Puerto Cabello, Venez.	
3286	91.26	0.3	YDG	Madiun, Indonesia	
3290	91.90	0.3	OAX6E	R. Continental, Peru	
3295	91.00	1	YDY	Samarinda, Indonesia	
	91.00	0.7	YVOG	R. Trujillo, Venezuela	
3297	91.00	16	YIH32	Baghdad, Iraq	
3300	90.85	5		Belize, Honduras (Br.)	
	90.91	0.35	OBX4Y	R. Junin, Peru	
	90.91	1	BEC29	Kinmen, Taiwan	
3301	90.88	7.5	CR7AB	R. Clube de Mozambique	
3305	90.77	1	DZCA	NCDA, Philipp.	
	90.77	3	YVKX	La Voz de la Patria, Venez.	
	90.77	0.3	YDM	Bukittinggi, Indonesia	
3310	90.63	1	HIN	Emisora HIN, Dom. Rep.	
3315	90.50	1	YVLI	R. Maracay, Venezuela	
3316	90.47	20		Paradys, So. Africa	
	90.46	5		Freetown, Sierra Leone	
3322	90.31	0.25	4VU	R. Lumiere, Haiti	
3325	90.23	0.6	YVRA	R. Monagas, Venezuela	
	90.23	1	ZYJ21	R. Borborema, Brazil	
	90.23	1.5		Forest Side, Mauritius	
	90.20	0.1	—	R. Dif. Hora Certa, Brazil	
3326	90.20	20		Kaduna, Nigeria	
**3330	90.09	0.3	CHU	Dominion Observat., Canada	
	90.09	0.5	OAXIM	R. Progreso, Peru	
3335	89.95	1/10		R. Marajoara, Brazil	
	89.95	0.5	YVQC	Ecos del Oriñoco, Venezuela	
3345	89.69	0.2	HI2S	Onda Musical, Dom. Rep.	
	89.69	2	YVKP	R. Tropical, Venezuela	
	89.68	2	DZB2	Call of Orient, Philipp.	
3350	89.55	0.3	OAX5J	R. Independencia, Peru	
	89.55		HIIN	La Voz de Reelecc. Dom. R.	
	89.42	1	YVLC	R. Valencia, Venezuela	
	89.42	0.5	HI3H	La Voz de la Alégria, Dom. R.	
	89.42	0.25	HCDR4	R. Miramar, Ecuador	
3356	89.42	20		Paradys, So. Africa	
3365	89.15	0.5	ZYS45	R. Dif. do Pananá, Brazil	
	89.15	5		Grenada, Windward Isl.	
	89.15	1	DZDA	NCDA, Philipp.	
3366	89.12	20		Accra, Ghana	
3375	88.89	0.3	HCMS	R. Alejo Toscano, Ecuador	
	88.89	1	ZYK78	R. Olinda Pernamb., Brazil	
	88.89	0.5	HI8V	La Vega, Dom. Rep.	
	88.89	0.6	YVMI	La Voz de la Fé, Venezuela	
	88.89	7.5	YDB4	Djakarta, Indonesia	
	88.89	5	YDW	Pontianak, Indonesia	
3376	88.89	20		Paradys, So. Africa	
3380	88.76	1.5		St. Denis, Reunion	
3385	88.63	0.25	HCJP4	Ondas Manabitas, Ecuador	
	88.63	1	YVQI	Emis. Unidas, Venezuela	
	88.63	1	ZYA41	R. Eldorado, Brazil	
	88.63	0.75	HI2D	R. Hit Musical, Dom. Rep.	
3390	88.50	0.25	OQ2AC	R. College, Belg. Congo	
3395	88.37	1	YDP2	Medan, Indonesia	
	88.37	0.5		R. Sorong, N. New Guinea	
	88.37	1	YVOJ	R. Universidad, Venezuela	
3396	88.36	15		Salisbury, Rhodesia	
3406	88.08	5	CR7CA	R. Clube de Mozambique	
3510	84.90	0.2	HCNL2	Voz del Campesino, Ecuad.	
3600	83.33	5		R. Nac. Espejo, Ecuador	
3603	80.47	0.75	CR6RK	R. Clube do Sul Angola	
3660	81.97	0.3	HCGR1	R. Nac. Espejo, Ecuador	
3765	79.68	0.3		Seoul (VUNC), S. Korea	
3780	79.35	20/100		R. Iran, Iran	
3800	78.95	0.25		Tokyo (FEN), Japan	
3900	76.92			Inner Mongolia, China	
3910	76.73	2	HLK51	Seoul, Korea	
3915	76.63	15/120		Peking, China	
	76.64	5	YDZ2	Ternate, Indonesia	
3925	76.43	10	JOZ	Tokyo, Japan	
3935	76.24	5	YDH2	Semarang, Indonesia	
3940	76.15	2.5	ZBW3	R. Hong Kong	
3945	76.05	0.5	DXB3	Cotabato, Philipp.	
	76.05	0.3	HCDI4	R. Iris, Ecuador	
	76.05	10	YDU2	Denpasar, Indonesia	
3950	75.95	0.2	HCPZ1	R. Rumichaca, Ecuador	
3952	75.90	15/100		BBC, Gt. Britain	
	75.90	0.375	CR7RA	R. Pax, Mozambique	
3954	75.86	2.5		Lusaka, Rhodesia	
3958	75.78	5/0.5		Stanley, Falkland Isl.	
	75.78	0.2	HCJG5	La Voz de Salcedo, Ecuador	
3960	75.76	5	CR4AA	R. Cl. Cabo Verde	

kc/s	m	kW	Call	Stations and countries	Rem.
3960	75.76	15/120		Peking, China	
	75.76	1	CR4AC	R. Barlavento, Cape Verde I	
	75.76	10/100		R. Free Europe, Germany	
	75.76	10	YDL	Padang, Indonesia	
	75.75	1	YDT	Soa Siu, Indonesia	
	75.76	0.2	HCOF4	La Voz de Chone, Ecuador	
3965	75.67	2.5		Enugu, Nigeria	
	75.67	10/100		Allouis, France	
	75.67	0.2	HCJH1	R. Turismo, Ecuador	
	75.67	0.5/50	BED44	Taipei, Taiwan	
3970	75.57	5		NDR, Germany	
	75.57	0.2	HCHV4	La Voz del Pueblo, Ecuador	
3975	75.47	15/100		BBC, London, Gt. Britain	
	75.48	10	YDI2	Surabaia, Indonesia	
	75.47	0.2	HCSM6	R. Sira, Ecuador	
3980	75.38	0.5	VRH4	Suva, Fiji Islands	
	75.38	8/100		Munich (VOA) Germany	
3985	75.28	15/120		Peking, China	
3990	75.19	20/50		R. Liberty, Germany	
	75.19	0.25	HCJA5	R. Atenas, Ecuador	
	75.19	3		Jeddah, Saudi Arabia	
3995	75.09			R. Roma, Italy	
	75.09	1	HCGB4	R. Nac. Espejo, Ecuador	
	75.09	0.2	HCLR5	Voz de Alausi, Ecuador	
4000	75.00			Payinchaoyuanmeng, China	
4009	74.83	1		Frunze, USSR	
4025	74.53	0.2	HCUN2	R. Unidad Nac., Ecuador	
4050	74.00			Kazan, USSR	
4068	73.75			Inner Mongolia, China	
4080	73.53	0.25	HCAO5	Voz del Tomebamba, Ecuad.	
4220	71.09			Sinkiang, China	
4235	70.84	15		Ashkhabad, USSR	
4273	70.21			Khabarovsk, USSR	
4310	69.61	1		Chimkent, USSR	
4460	67.30			Heilungkiang, China	
4486	66.88			Ufa, USSR	
4500	66.67			Sinkiang, China	
	66.67	0.2	HCHC2	Emis. Central, Ecuador	
4525	66.25			Silinkoulehmeng, China	
4559	65.80			Guryev, USSR	
4620	64.93	0.5	HSQ	Bangkok, Thailand	
	64.93	120/240		Peking, China	
4635	64.72			Stalinabad, USSR	
	64.72	1		Yuzhno, Sakhalinsk, USSR	
4650	64.52	1	HCAK2	R. Dif. del Ecuador, Ecuador	
4680	64.10	5	HCGB1	R. Nac. Espejo, Ecuador	
4695	63.90	0.2	HCMX4	R. Cenit, Ecuador	
4710	63.78	0.25	HCET2	R. El. Telegrafo, Ecuador	
4725	63.60	0.25	HCRM2	R. Cultural Municipal, Ec.	
4755	63.09	1	ZYY3	R. Brazil, Brazil	
	63.09	0.15	CR4AB	R. Cl. Mindelo, Cape Verde	
	63.10	2.5	HJGJ	Reina de Colombia, Col.	
4735	63.35	2	ZYF23	R. Dif. do Maranhao, Brazil	
4760	63.03	0.5	YVKV	Emis. Vargas, Venezuela	
	63.03	0.25	HCFA4	Voz de Manabi, Ecuador	
	63.03	7.5	OTM2	R. Congo Belge, B. Congo	
	63.03			AIR, Simla, India	
4765	62.95	3	HJEF	R. Dif. Occidente, Col.	
	62.96	5	HCAU2	R. Atalaya, Ecuador	
4770	62.89	0.3	OAX2G	R. Cajamarca, Peru	
	62.89	1	CR6RG	R. Diamang, Angola	
	62.89	0.3	YVMW	Ondas del Caribe, Venezuela	
	62.89			Sinkiang, China	
	62.89	10		ELWA, Liberia	
	62.89	1	HSQ	Bangkok, Thailand	
4775	62.84	2	ZYH29	R. Dragão do Mar, Brazil	
	62.84	5	ZYR81	R. Progresso, Brazil	
	62.83			AIR, Gauhati, India	
	62.83	0.25	CR7XB	Quelimane, Mozambique	
4780	62.76	1	YVLA	Voz de Carabobo, Venez.	
	62.76	0.2	HCLC1	R. Atahualpa, Ecuador	
	62.76	4		R. Djibouti, Fr. Somaliland	
	62.76	5	HJAB	Emis. Unidas, Colombia	
4785	62.70	0.5	ZYM8	R. Ribamar, Brazil	
	62.70	1	ZYY20	R. Dif. do Guaporé, Brazil	
4790	62.69	0.25	HCAS4	Voz de los Caras, Ecuador	
	62.63	5	YVQN	Ondas Porteñas, Venezuela	
4795	62.57	1	—	R. Cultura de C. Br.	
	62.57	2	—	R. Tabajaras, Brazil	
	62.57	0.25		R. Zanzibar, Zanzibar	
	62.57	10	HJTB	"R. Militar", Colombia	
	62.57	4		R. Inter Equatoriale, Congo	
	62.54	50	XZK2	Rangoon, Burma	
4797	62.54	5		R. Somali, Br. Somaliland	
4800	62.50	7.5	YVME	Ondas del Lago, Venezuela	
4804	62.45	1		R. Cl. de Sao Tomé, S. Tomé	
	62.45	5		Kisumu, Kenya	
4805	62.43	5	ZYS8	R. Dif. do Amazonas, Brazil	
	62.42	7.5	YDB2	Djakarta, Indonesia	
	62.42	0.25	HCSV5	R. Amazonas, Ecuador	
4807	62.41	1		Lahore, Pakistan	
	62.41	1		Sao Tomé, Sao Tomé	
4810	62.37	1	YVMG	R. Popular, Venezuela	
	62.37	0.25	HCLS3	R. Coro Sta. Cecilia, Ecuador	
	62.37	20		Paradys, So. Africa	
4815	62.31	1	ZYP33	Petropolis R. Dif., Brazil	
	62.31	0.25	HCDC4	R. Cenit, Ecuador	
	62.31	1	ZYH21	R. Icarema de Fortaleza, Br.	
	62.31	1	HJBB	La Voz de Cucuta, Col.	
	62.31	4		Ouagadougou, Upper Volta	
4820	62.24	1	YVRC	Voz de Apure, Venez.	
	62.24	0.2	XEJG	Guadalajara, Mexico	
	62.24			Bhopal, India	
4824	62.18	4	CR6RB	R. Eclesia, Angola	
4825	62.18	0.5	ZYV56	R. Cl. de Varginha, Brazil	
	62.18	1	HJHC	R. Nariño, Colombia	
	62.18	0.5	ZYE7	Educadora de Parnaiba, Br.	
4826	62.16	15		Lusaka, Rhodesia	
4830	62.11	5	YVOA	Voz del Tachira, Venezuela	
	62.10	1	HSK	R. Thailand, Thailand	
4835	62.05	1	HJKE	R. Continental, Colombia	
	62.05	0.5	ZYV37	R. Soc. Triangulo, Brazil	
	62.05	1	—	R. Dif. Roraima, Brazil	
	62.05	4		Bamako, Fr. Sudan	
4838	62.00	1	CR6RY	Novo Redondo, Angola	
	62.00	0.4	HSARD	Bangkok, Thailand	
4839	62.00	10		R. Bukavu, Belg. Congo	
4840	61.98	0.3	YDU	Singaradja, Indonesia	
	61.98	1	YVOI	R. Valera, Venezuela	
	61.98	10	CR7BV	R. Clube de Mozambique	
4845	61.92	1	ZYY8	R. Dif. de Teresina, Brazil	
	61.92	1	HJGF	R. Bucaramanga, Colombia	
4845	61.92	10		Dar-Es-Salaam, Tanganyika	
4850	61.86	1	YVMS	R. Universo, Venezuela	
	61.86	0.35	PZH5	Paramaribo, Surinam	
	61.86	0.25	HCCV3	Ond. del Zamora, Ecuador	
	61.86			AIR, Ranchi, India	
	61.86	10/5		R. Goa, Goa	
4855	61.79	4		R. Mauritania, Senegal	
4851	61.48	1	CR6RD	Nova Lisboa, Angola	
4855	61.79	0.25	CP39	R. Cobija, Bolivia	
	61.79	1	HJFN	R. Neiva, Colombia	
	61.79	10	YDK	Palembang, Indonesia	
	61.79	6		Nairobi, Kenya	
	61.79	1	ZYR61	R. Dif. de Taubaté, Brazil	
	61.79	0.25	CR7XD	Nampula, Mozambique	
4859	61.74	7.5		R. Clube de Mozambique	
4860	61.73	0.5	OCX4B	R. Callao, Peru	
	61.73	1	YVPA	R. Yaracuy, Venezuela	
	61.73			R. Kashmir, India	
	61.73	5		Kushing, Sarawak	
	61.73	0.25	HI5C	Voz del Progreso, Dom. R.	
4865	61.66	1	CSA97	Ponta Delgada, Azores	
	61.66	1	HJFA	Voz de Pereira, Colombia	
	61.66	2	PRC5	R. Clube do Para, Brazil	
4869	61.60	1	CR6RN	R. Clube de Angola, Angola	
4870	61.60	10		Colombo, Ceylon	
	61.60	4		Cotonou, Dahomey	
4873	61.56			Uralsk, USSR	
4875	61.54	1	ZYZ30	R. Jornal do Brazil, Brazil	
	61.54	10	YDG3	Surakarta, Indonesia	
4880	61.48	7.5	YVKF	Ond. Populares, Venezuela	
	61.48	0.75	OCX4E	R. 1160, Peru	
	61.48			AIR, Lucknow, India	
	61.48	0.5	HRQN2	La Voz del Atlantic, H. R.	
4885	61.41	10		Nairobi, Kenya	
	61.41	5	ZYV50	R. Cultura de Pocos, Brazil	
	61.41	1	—	R. Dif. Acreana, Brazil	
4890	61.35	5	YVKB	R. Dif. Venezuela, Venez.	
4893	61.32	4		R. Senegal, Senegal	
4895	61.29	20		Paradys, So. Africa	
	61.29	2.5	PRF6	R. Baré, Brazil	
	61.29	1	ZYN22	R. Cultura da Bahia, Brazil	
	61.29			Rawalpindi, Pakistan	
4900	61.22	10		Colombo, Ceylon	
	61.22	1	YVQE	R. Bolivar, Venezuela	
	61.22	0.02	TGLAB	R. Victoria, Guatemala	
	61.22	1	YDS	Gorontalo, Indonesia	
4904	61.18	4		R. Tchad, Tchad	
4905	61.16	5	ZYZ21	R. Relogio Federal, Brazil	
	61.16	1	HJAA	Emis. Atlantico, Colombia	
4905	61.16	0.5	HI5B	Emis. HI5B, Dom. Rep.	
4907	61.13	10		R. Cambodge, Cambodia	
4910	61.10	10/50		Karachi, Pakistan	

kc/s	m	kW	Call	Stations and countries	Rem.
4910	61.10	4		R. Nationale, Guinea (Rep.)	
	61.10	0.5	HI9B	Santiago, Dom. Rep.	
	61.10	3	HCMJ1	R. Gran Colombia, Ecuador	
4911	61.08	10		Lusaka, Rhodesia	
4915	61.04	1	HJEQ	Voz del Cauca, Colombia	
	61.04	5		Accra, Ghana	
	61.04	1	ZYR3	Cultura de Araraquara, Br.	
	61.04	2	—	Federal do Amapa, Brazil	
4920	60.98	10	VLM4	Brisbane, Australia	
	60.98	7.5	YVKR	R. Caracas, Venezuela	
	60.98	0.2	HCJX6	R. Cult. Religiosa, Ecuador	
	60.98	0.2	HCMP2	Voz de la Peninsula, Ecuad.	
	60.98	1	YDX2	Tdj. Pinang, Indonesia	
	60.98			AIR, Madras, India	
4925	60.90	1	ZYA36	R. Industrial de Juiz, Brazil	
4924	60.92	7.5	CR7BU	R. Clube de Mozambique	
4930	60.85	1	HCCR1	R. Casa de la Cultura, Ecuad.	
	60.85	0.5	HRTP3	La Voz de Olancho, Hond. R.	
	60.85	5		Erevan, USSR.	
4934	60.80	10		Nairobi, Kenya	
4935	60.80	1	ZYI21	R. Poti, Brazil	
	60.80	1	HJLF	Ondas de Ibague, Colombia	
4940	60.73	2	YVMO	R. Occidental, Venezuela	
	60.73			AIR, Delhi, India	
	60.73	10		R. Abidjan, Ivory Coast	
	60.73			Kiev, USSR	
4945	60.67	1	HJCW	Emis. Sur. America, Colomb.	
	60.67	0.25	—	R. Dif. Mearim, Brazil	
	60.67	10	YDA3	Bandung, Indonesia	
	60.67	1	ZYO22	R. Capixaba, Brazil	
	60.67	20		Paradys, So. Africa	
	60.67	0.25	DZB6	Nat. Teachers Coll., Philipp.	
4950	60.60	1	YVMM	R. Coro, Venezuela	
	60.60	4		R. Mali, Dakar, Sénégal	
	60.60	7.5		Kuching, Sarawak	
	60.60	0.2	HCSJ1	R. Javier, Ecuador	
4955	60.54	10	HJCA	R. Televisora Nac., Colomb.	
	60.54	2	PRF7	R. Cultura de Campos, Br.	
4958	60.51	2		Baku, USSR	
4960	60.48		VUD	AIR, Delhi, India	
	60.48	1	YVQA	R. Sucre, Venezuela	
4965	60.42	5	ZYY2	R. Brasil Central, Brazil	
	60.42	1		R. Ruta, Ecuador	
	60.42			Blagoveshchensk, USSR	
	60.42	0.35	ZKIZA	R. Rarotonga, Cook Isl.	
	60.42	5		Mombasa, Kenya	
	60.42	10		Colombo, Ceylon	
4967	60.25	5		R. Kuwait, Kuwait	
4970	60.36	10	YVLK	R. Rumbos, Venezuela	
	60.36	0.3	HCGH1	R. Tarqui, Ecuador	
4975	60.30	4		R. Yaounde, Cameroon (Fr.)	
	60.30	2.5	ZYY9	R. Timbira, Brazil	
	60.30	1	ZYP20	R. Mapinquira, Brazil	
4980	60.25	0.25	OQ2AC	R. College, Belgian Congo	
	60.25	3	OQ2AD	UFAC, Belgian Congo	
	60.25	1	HI3K	Ondas del Yaque, Dom. Rep.	
	60.25	2.5	HCJC5	Ondas Azuayas, Ecuador	
	60.25			Fukien, China	
4985	60.18	1	YDN2	Kotaradja, Indonesia	
	60.18	0.5	ZYZ5	A Voz do Oeste, Brazil	
	60.18		HJGV	R. Independencia, Colombia	
4988	60.14			AIR, Hyderabad, India	
4990	60.12	0.04	ZCQ3	Victoria, Seychelles	
	60.12	15	YVMQ	R. Barquisimeto, Venezuela	
	60.12			Hunan, China	
	60.12	20		Lagos, Nigeria	
4995	60.06	3	CR6RZ	R. Angola, Angola	
	60.06	0.5	HRQW	R. Juventude, Hond. R.	
4996	60.05			Magadan, USSR	
4997	60.04			Ivanovo, USSR	
*5000	60.00	0.5	MSF	Teddington, Gt. Britain	
*	60.00	2	WWVH	Puunene, Hawaii	
*	60.00	10	WWV	Washington, USA	
*	60.00	2	JJY	Tokyo, Japan	
*	60.00	2	LOL	Buenos Aires, Argentina	
*	60.00		HBN	Neuenburg, Switzerland	
5005	59.94	0.25	HCBJ2	R. El Mundo, Ecuador	
5010	59.88	7.5		FBS, Singapore	
	59.88	1	OAX5O	R. Pisco, Peru	
	59.88	5		Grenada, Windward Isl.	
	59.88	0.25	HCRT1	R. Catolica, Ecuador	
	59.88	4		R. Garoua, Fr. Cameroon	
	59.88	4		Tananarive, Madagascar	
	59.88			Kwangsi, China	
5012	59.85	10	HJCA	R. Nacional, Colombia	
5015	59.82			Vladivostok, USSR	
	59.82	5		R. Guanabara, Brazil	

kc/s	m	kW	Call	Stations and countries	Rem.
5015	59.82	0.25	HCCU5	Voz de Azogues, Ecuador	
5020	59.76	10		Colombo, Ceylon	
	59.76	1	HJFW	Transm. Caldas, Colombia	
	59.76	4		R. Niger, Niger	
	59.76	0.4	4VGS	R. Independence, Haiti	
	59.76			Hupei, China	
	59.76		YVNK	R. Cronos, Venezuela	
5024	59.71	1	CR6RH	Sa da Bandeira, Angola	
5025	59.70	1		R. Dif. de Aquidauana, Br.	
5026	59.70	7.5		Kampala, Uganda	
5028	59.69	0.25	HCOB5	Ondas Azules, Ecuador	
5030	59.64	0.2	HI8Z	R. Santiago, Dom. Rep.	
	59.64	10	YVKM	R. Continente, Venezuela	
	59.64	15/120		Peking, China	
	59.64	7.5	YDP	Medan, Indonesia	
	59.64	0.25	HCPS5	Ondas Cañaris, Ecuador	
5033	59.59	1	CR6AA	Lobito, Angola	
5035	59.57	1	ZYW22	R. Anhanguera, Brazil	
5036	59.57	4		R. Lomé, Togoland	
5039	59.73	20		Khartoum, Sudan	
5040	59.52	0.225	4VPM	Port-de-Paix, Haiti	
	59.52	2		Tbilisi, USSR	
	59.52	1	YVMA	Ecos del Zulia, Venezuela	
	59.52	0.225	4VPM	Voix du Nord-Quest, Haiti	
	59.52	1	HJDJ	Voz del Choco, Colombia	
	59.52	4		R. Gabon, Gabon	
5042	59.48	1	CR6RF	R. Cl. de Benguela, Angola	
5045	59.46	5		Biak, Neth. New Guinea	
	59.46	0.5	ZYP23	R. Quitandinha, Brazil	
	59.46	10		R. Rio de Janeiro, Brazil	
	59.46	0.3		Beira, Mozambique	
	59.46	0.2	HCEA5	R. Roxi, Ecuador	
5050	59.41	20		Dar-es-Salaam, Tanganyika	
	59.41	5	YVKD	R. Cultura, Venezuela	
	59.41	50		Petropavlovsk, USSR	
5055	59.36	0.5	HI2L	Voz del Tropico, Dom. Rep.	
	59.36	2	ZYO23	R. Victoria, Brazil	
	59.36	1		R. Cultura de Cuiaba, Brazil	
	59.36	1	HJDW	Voz de Medellin, Colombia	
	59.36	1/0.25	CR6RW	Cabinda, Angola	
				5060–5950 kc/s	
5060	59.29	7.5	YDJ	Jogjakarta, Indonesia	
	59.29	0.4	4VRM	Voix des Gonaives, Haiti	
	59.29	0.25	HCMV5	R. Popular, Ecuador	
5065	59.23			Petrozavodsk, USSR	
5075	59.13	25	HJGC	R. Sutatenza, Colombia	
5100	58.82	0.25		Nampula, Mozambique	
5115	58.65	50		Petropavlovsk, USSR	
	58.65			Vladivostok, USSR	
5125	58.54	15/120		Peking, China	
	58 64	0.25	HCRQ1	R. Quito, Ecuador	
5170	58.03	0.2	HCRI1	Centro Radfnco, Ecuador	
5137	58.00	1	CR6RV	R. Clube Moxico, Angola	
5200	57.70			R. Mercurio, Ecuador	
5220	57.47	15/120		Peking, China	
5225	57.42			Novosibirsk, USSR	
5230	57.36			Nicolayevsk, USSR	
5260	57.03	5		Alma Ata, USSR	
5270	56.93			Bangkok, Thailand	
5290	56.71			Krasnoyarsk, USSR	
5302	56.60			Ivanovo, USSR	
5580	53.76	0.3	HCRT6	R. Paz y Bien, Ecuador	
5700	52.63	0.3		Pyongyang, Korea	
5740	52.26	5		Erevan, USSR	
	52.26	0.3	4VCB	La Voix du Sud, Haiti	
5750	52.18	0.5	CE8AA	Soc.Nac.de Agricult., Chile	
5782	51.84	1	HCIFA	R. Metropolitana, Ecuador	
5802	51.72	0.2	HCKF1	La Voz del Norte, Ecuador	
5810	51.63	0.25	YNRC	R. Cultural, Nicaragua	
5850	51.27	1	HSQ	Bangkok, Thailland	
5860	51.20	15/120		Peking, China	
5880	51.02	15/120		Peking, China	
5900	50.84	1	ZNB	Mafeking, Bechuanaland	
5910	50.76	0.2	HCAR1	Voz de Montufar, Ecuador	
5933	50.57	10		Elisabethville, Belg. Congo	
5940	50.51			Khabarovsk, USSR	
5942	50.49	0.25	HCPR1	R. Equinoccial, Ecuador	
				5950–6200 kc/s – 49 meter Band	
5950	50.42	3.5	BEC28	Taipei, Taiwan	
	50.42	120/240		Peking, China	
	50.42	7.5/100		Warsaw, Poland	
	50.42	2	HRN	La Voz de Honduras, Hond. R.	
5952	50.40	5	TGNA	R. Cultural, Guatemala	
5954	50.39	1	TIQ	R. Casino, Costa Rica	
5955	50.38	10/100		Allouis, France	
	50.38	0.25	OAX4P	R. Huancayo, Peru	

kc/s	m	kW	Call	Stations and countries	Rem.
5955	50.38	7.5	ZYR226	R. Gazeta, Brazil	
5960	50.34	100	CSA206	R. Nacional, Portugal	
	50.34	1	OAX7L	La Voz del Altiplano, Peru	
	50.34	5	VQO2	Honiara, Solomon Isl.	
	50.34	50/60/100		R. Roma, Italy	
	50.34	10/100		R. Free Europe, Germany	
	50.34	0.5	BEC38	Taipei, Taiwan	
	50.34	0.6	HOL21	R. Hogar, Panama	
	50.34	1	HJCF	Voz de Bogota, Colombia	
	50.34	120/240		Peking, China	
	50.34	5/7.5		R. Athens, Greece	
5965	50.28	10/100		Allouis, France	
	50.28	0.5	YNWW	R. Sport, Nicaragua	
	50.28	7.5	ZYU60	R. Guaiba, Brazil	
	50.28	3		R. Leopoldville, Belg. Congo	
	50.28	0.5	HRVW4	La Voz de C. America, Hon. R.	
5970	50.25	50	CKNA	R. Canada, Canada	
	50.25	7.5		Dacca, Pakistan	
	50.25	0.3	CBNX	St. John's, Canada	
	50.25	7.5	HI4T	La Voz Dominicana, Dom.R.	
	50.25	10/100		R. Free Europe, Germany	
	50.25	1	YDO2	Bandjarmasin, Indonesia	
	50.25	10	OBX4Q	R. El Sol, Peru	
	50.25	1.5		R. Brazzaville, Congo	
	50.25	0.5	TGLA	R. Victoria, Guatemala	
	50.25	0.3	HCMH6	R. Cotopaxi, Ecuador	
	50.25	1.5	BEC26	Tsoying, Taiwan	
	50.25	100		R. Prague, Czecho.	
5972	50.22	25		R. Andorra, Andorra	
5975	50.21	15/100		BBC, London, Gt. Britain	
	50.21	7.5/20		Damascus, Syria	
	50.21	10	CP5	R. Illimani, Bolivia	
	50.21	0.4	HCGD3	R. Fátima, Ecuador	
	50.21	10	ZYJ7	R. Guaruja, Brazil	
5976	50.20	100	CSA78	R. Nacional, Portugal	
5979	50.18			Yakutsk, USSR	
5980	50.17	5	OBX4M	R. Panamericana, Peru	
	50.17	5	VQA52	Jesselton, Borneo	
	50.17	1	TGAR	R. Quetzal, Guatemala	
	50.17	7.5		Dacca, Pakistan	
	50.17	10/50		Karachi, Pakistan	
	50.17	0.5/50	BED29	Taipei BCC, Taiwan	
	50.17	100	DMQ5	Deutsche Welle, Germany	
	50.17	10	HLK2	Seoul, Korea	
5981	50.16	2	ZFY	R. Demerara, Br. Guiana	
5982	50.17	3		R. Bangui, C. African Rep.	
5985	50.13	20	LRS2	R. Splendid, Argentina	
	50.13	4	OEI30	Kronstorf, Austria	
5985	50.13	10/100		R. Free Europe, Germany	
	50.13	25		Sanaah, Yemen	
	50.13	3	ZPA5	R. Encarnación, Paraguay	
	50.13	7.5	4VB	R. Commerce, Haiti	
	50.13	0.2	HCAH3	R. Trebol, Ecuador	
	50.13		HJGW	R. Independencia, Colombia	
	50.13	1	YSW	R. Santa Ana, El Salvador	
	50.13	120/240		Peking, China	
5990	50.08	15/100		BBC, London, Gt. Britain	
	50.08	0.3	HCGY6	R. Luz, Ecuador	
	50.08	1	YDS2	Menado, Indonesia	
	50.08	10/50		Karachi, Pakistan	
	50.08	3	TGJA	R. Nuevo Mundo, Guatemala	
	50.08		OAXIW	R. Nac. Tumbes, Peru	
	50.08	10	PRL5	R.Dif. Educativa, Brazil	
	50.08	120/240		Peking, China	
5995	50.04	1	YNDG	R. Colonial, Nicaragua	
	50.04	1	HRPI1	El Eco de Honduras, Hon.R.	
	50.04	3.5	BEC36	Taipei, Taiwan	
	50.04	1	HOM50	C.R.P.C., Panama	
6000	50.00	0.4	OEI20	Innsbruck, Austria	
	50.00	50		R. Nacional, Spain	
	50.00	1	DZH4	Voice of the Philippines	
	50.55	5	CXA2	R. Sur, Uruguay	
	50.00	0.25	TGTA	R. Sonora, Guatemala	
	50.00	5	PRK5	R. Inconfidencia, Brazil	
	50.00	0.3	YNBH	R. Panamericana, Nicaragua	
	50.00	20	TAN	Ankara, Turkey	
	50.00	4		R. Djibouti, Fr. Somaliland	
	50.00	120/240		Peking, China	
	50.00	0.4	4VEC	La Voix Evangelique, Haiti	
6003	49.97	0.15	CSB56	Emisora Liceu, Portugal	
	49.97	0.5		Tripolis, Greece	
6004	49.96	7.5		Colombo, Ceylon	
	49.96	5		R. Nepal, India	
6005	49.96	20		Berlin, RIAS, Germany	
	49.96	1	HP5K	Voz de la Victor, Panama	
	49.96	0.3	HRQR	La Voz del Pueblo, Honduras	
	49.96	3.5		R. Zanzibar, Zanzibar	
6005	49.96	7.5/100		Warsaw, Poland	
6006	49.95	0.7	TIHBG	R. Reloj, Costa Rica	
6010	49.92	1	CJCX	Sydney, Canada	
	49.92	1	CE601	Emisoras Norte, Chile	
	49.92	5	YSS	R. Nacional, El Salvador	
	49.92	15/100		BBC, London, Gt. Britain	
	49.92	50/60/100		R. Roma, Italy	
	49.92	2.5	XEOI	Radio Mil, Mexico	
	49.92	0.5	OAX4V	R. America, Peru	
	49.92	10	HJFK	La Voz Amiga, Colombia	
6015	49.88	10/100		R. Free Europe, Germany	
	49.88	15	PRA8	R.Cl. de Pernambuco, Brazil	
	49.88	20		Yamata (VUNC), Japan	
	49.88	0.25	HC4EB	R. Manta, Ecuador	
	49.88	1	ZPA10	R. Paraguay, Paraguay	
6018	49.84	10	HJCX	Voz de Colombia, Colombia	
	49.84	15		Salisbury, Rhodesia	
6020	49.83	40		Kiev, USSR	
	49.83	0.25	XEUW	El Eco de Sotavento, Mexico	
	49.83	1	OAX4Q	R. Victoria, Peru	
	49.83	1	TGDA	La Voz de Occidente, Guat.	
	49.83	50		Komsomolsk, USSR	
	49.83			Khabarovsk, USSR	
	49.83	10	CE602	Diego Portales, Chile	
	49.83	1	HI9U	Broadc. Tropical, Dom.Rep.	
	49.83	10		R. Nederland, Holland	
	49.83	0.25	HCNF5	R. Dif. del Ecuador	
	49.83	7.5		Amman, Jordan	
6025	49.79	7.5	ZYR63	R. Em. de Piratininga, Brazil	
	49.79	0.1	HI1J	Voz de Oriente, Dom.Rep.	
	49.79	50/100		R. Nederland, Holland	
	49.79	5		Kajang, Malaya	
	49.79	10	CR6RZ	R. Angola, Angola	
	49.79	120/240		Peking, China	
6028	49.77	1	HROW2	R. Montserrat, Hond.R.	
	49.77		OAX8B	R. Nac. Iquitos, Peru	
6029	49.76	0.25	HCPT5	La Voz del P. Socorro, Ecu.	
6030	49.75	0.1	CFVP	Calgary, Canada	
	49.75	20		Mühlacker (SDR), Germany	
	49.75	0.5	XEKW	R. Continente, Mexico	
	49.75	0.25	HP5B	R. Cadena Miramar, Panama	
	49.75	2	DZH6	"The Call of Orient", Philip.	
	49.75	5	TGTQ	R. Internacional, Guatemala	
	49.75	0.2	HCRQ2	Voz del Tropico, Ecuador	
	49.25	100	YIH62	Baghdad, Iraq	
6035	49.71	25	3AM3	Monte Carlo, Monaco	
	49.71	4		Noumea, New Caledonia	
	49.71	15/100		BBC, London, Gt. Britain	
	49.71	7.5	ZYZ26	R. Globo, Brazil	
	49.71	0.15	OAX6B	R. Landa, Peru	
	49.71	1	CXA30	R. Nacional, Uruguay	
	49.71	120/240		Peking, China	
	49.71	50	XZK3	Rangoon, Burma	
	49.71	10/50		Karachi, Pakistan	
	49.71	1.5	HRTL2	R. Tegucigalpa, Hond.R.	
6037	49.69	0.3	TIFC	Faro del Caribe, Costa Rica	
6040	49.67	15/100		BBC, London, Gt. Britain	
	49.67	20/100		AIR, Delhi, India	
	49.67	0.5	YNLUA	Radio City, Nicaragua	
	49.67	0.5	TGCO	Voz del Tropico, Guatemala	
	49.67	10	HJCB	La Voz del Tolima, Colombia	
	49.67	20/100		R. Iran, Iran	
	49.67	50/200	KNBH	Dixon, USA	
6042	49.65	0.25	OAX6A	R. Arequipa, Peru	
6045	49.63	0.1	XETW	La Voz de Tampico, Mexico	
	49.63	100	YDF	Djakarta, Indonesia	
	49.63	1	HOU31	Voz del Baru, Panama	
	49.63	10/100		Allouis, France	
	49.63	7.5	ZYZ33	R. Clube Paranaense, Brazil	
	49.63	5	CE604.5	R. Libertad, Chile	
	49.63	10	CXA61	El Espectador, Uruguay	
6050	49.59	0.5	HRLP3	R. America, Honduras Rp.	
	49.59	2		Tbilisi, USSR	
	49.59	15/100		BBC, London, Gt. Britain	
	49.59	0.1	VSZ10	Tarawa, Gilbert Isl.	
	49.59	1	HCJB	Voz de los Andes, Ecuador	
	49.59	0.8	TGXB	R. Centro Musical, Guatema.	
6054	49.55	5	HJEX	R. Pacifico, Colombia	
6055	49.55	7.5	PRB21	R. Record, Brazil	
	49.55			Petrozavodsk, USSR	
	49.55	10	JOZ2	Tokyo, Japan	
	49.55	5	CXA53	La Voz de Melo, Uruguay	
	49.55	0.25	DYH4	Dumaguete City, Philipp.	
	49.55	20/50		R. Liberty, Germany	
	49.55	100	OLR2G	Praha, Czechoslovakia	
6057	49.53	0.25	OAX2A	R. Trujillo, Peru	
6060	49.50	0.3	HRYN4	Voz del Merendon, Hond. R.	

kc/s	m	kW	Call	Stations and countries	Rem.
6060	49.50	15/100		BBC, London, Gt. Britain	
	49.50	50	CKRZ	R. Canada, Canada	
	49.50	0.3	HORT	R. Balboa, Panama	
	49.50			Caltanissetta, Italy	
	49.50	1.5	TGXX	R. Ciros, Guatemala	
	49.50	50/60/100		R. Roma, Italy	
	49.50	0.25	HCAC1	Voz de Democracia, Ecuador	
6062	49.49	16	LRA31	R. Nacional, Argentina	
	49.48	2		Bangkok, Thailand	
6065	49.46	0.45	YNEQ	Voz de la Victoria, Nicaragua	
	49.46	100		Hörby, Sweden	
	49.46	15/120		Peking, China	
	49.46	7.5	ZYZ31	R. Rural Brasileira, Brazil	
	49.46	5	XEXG	R. Mexicana del Centro, Mex.	
6067	49.45	1	EHTI	Tetuan, Morocco	
6069	49.43	20/100	JOAB6	R. Japan	
6070	49.42	1	CFRX	Toronto, Canada	
	49.42	15/100		BBC, London, Gt. Britain	
	49.42	50		Petropavlovsk, USSR	
	49.42	120		R. Sofia, Bulgaria	
	49.42	0.25	CP18	R. El. Condor, Oruro, Bolivia	
	49.42	1	HSK5	R. Thailand, Thailand	
	49.42	10/50		Karachi, Pakistan	
	49.42	0.3	OAX4S	Onda Popular, Peru	
	49.42	5	CE607	R. Soc. Nac. de Mineria, Chile	
	49.42	0.25	TGPA	R. Palmeras, Guatemala	
	49.42	10		R. Coquilhatville, Belg. Cong.	
6075	49.38	0.5	TIGG	R. Excelsior, Costa Rica	
	49.38	20		NDR, Germany	
	49.38	2.5	CXA3	R. Ariel, Uruguay	
	49.38	7.5		Colombo, Ceylon	
	49.38	5/7.5		R. Athens, Greece	
	49.38			Erevan, USSR	
	49.38	7.5/100		Warsaw, Poland	
	49.38	0.5	HRMH5	La Voz del Junco, Hond. R.	
6079	49.35	10	OOB	Stanleyville, Belgian Congo	
6080	49.34	15/100		BBC, London, Gt. Britain	
	49.34	20/100	JOA/B6	R. Japan	
	49.34	0.25	DZ17	Voice of Manila, Philipp.	
	49.34	0.01	CKFX	Vancouver, Canada	
	49.34	5	XEQ	R. Mexicana del C., Mexico	
	49.34	7.5	ZL7	Wellington, New Zealand	
	49.34			Nauen, Germany (DDR)	
	49.34	10	CSB51	R. Cl. Portuguese, Portugal	
	49.34	0.25	TGCB	R. Colonial, Guatemala	
	49.34	10	HCDG2	R. Bolivar, Ecuador	
6082	49.32	40	OAX4Z	R. Nacional, Lima, Peru	
6085	49.30	120/240		Peking, China	
	49.30	64	ZYK2	R. Jornal do Commercio, Br.	
	49.30	10		München (BR), Germany	
	49.30			Tallinn, USSR	
	49.30	1	HRNQ4	R. Morazan, Hond. Rp.	
	49.30	0.5	HI8Z	R. Santiago, Dom. Rep.	
	49.30		VUD	AIR Delhi, India	
6090	49.26	2	VLI6	Sydney, Australia	
	49.26	0.3	HOOH	R. Independiente, Panama	
	49.26	15/100		BBC, London, Gt. Britain	
	49.26	50		R. Luxembourg	
	49.26	10		R. Cambodge, Cambodia	
	49.26	40	LRY1	R. Belgrano, Argentina	
	49.26	1	XECMT	R. Mante, Mexico	
	49.26	10		Liberian, Br. Corp., Liberia	
6095	49.22	1	OAX4H	R. Mundial, Peru	
	49.22	100		Hörby, Sweden	
	49.22	1	YSC	Ondas Populares, El Salvad.	
	49.22	10/100		R. Free Europe, Germany	
	49.22	25	ZYB7	R. Dif. de Sao Paulo, Br.	
	49.22	0.5/50	BED64	Taipei, Taiwan	
6100	49.18	0.25	CE610	R. Calama, Chile	
	49.18	15/120		Peking, China	
	49.18	100		R. Belgrade, Yugoslavia	
	49.18	0.25	DYH3	R. Cebu, Philipp.	
	49.18	1	TGOA	La Voz de las Americas, Guat.	
	49,18	8/100		Munich (VOA), Germany	
	49.18			Hanoi, N. Vietnam	
	49.18	0.54		La Voix de la Vie Marie, Haiti	
6101	49.17	1.5		Forest Side, Mauritius	
6105	49.14	1	CR6RR	R. Diamang, Angola	
	49.14	0.25	XEQM	Merida, Mexico	
	49.14	5	ZYN6	Ceará R. Clube, Brazil	
	49.14	10/100		R. Free Europe, Germany	
	49.14		OAX6F	R. Nac. Tacna, Peru	
6106	49.14	2.5	BEC34	Taipei, Taiwan	
6110	49.10			Radio Kashmir, India	
	49.10	15/100		BBC, London, Gt. Britain	
	49.10	7.5/100		BBC, Singapore, Malaya	
	49.10	7.5	DZI4	Manila, Philipp.	

kc/s	m	kW	Call	Stations and countries	Rem.
6110	49.10	1	TGQA	R. Nacional, Guatemala	
	49.10	0.5	HRXW2	R. Comayagüela, Hond. R.	
	49.10	0.5	CE611	Nac. de Agricultura, Chile	
	49.10	2		R. Tanger, Morocco	
6112	49.08	0.25		Nairobi (FBS), Kenya	
	49.08	1		Ankara, Police Radio, Turk.	
6113	49.07	1	HI1Z	Broadcasting Nac. Dom. Rep.	
6115	49.06	100	DMQ6	Deutsche Welle, Germany	
	49.06	100	ZYC7	R. Tupi, Brazil	
	49.06	0.3	HCLT4	R. Costa Azul, Ecuador	
	49.06	0.25	HCXO1	R. Nac. Espejo, Ecuador	
	49.06	5	CXA73	R. Clarin, Uruguay	
	49.06	1		R. Douala, Cameroon (Fr.)	
	49.06	1	OBX4Z	R. Luz, Peru	
	49.06	5		Deutschl.sender (DDR), Ger.	
	49.06	20		Khabarovsk, USSR	
6120	49.02	10	LRX1	El Mundo, Argentina	
	49.02	15	OIX7	Pori, Finland	
	49.02	7.5/20		BBC Cyprus, Cyprus	
	49.02	5	YDI4	Surabaja, Indonesia	
	49.02	120/240		Peking, China	
6122	49.00	0.5	HP5H	La Voz del Pueblo, Panama	
6125	48.98	10	CXA4	S.O.D.R.E., Uruguay	
	48.98	10		R. Luluabourg, Belg. Congo	
	48.98	1	HRQ4	R. Suyapa, Honduras R.	
	48.98	15/100		BBC, London, Gt. Britain	
	48.98	7	PRG9	R. Nac. de Sao Paulo, Brazil	
	48.98	0,35	CP15	El. Condor, La Paz, Bol.	
	48.98	10/100		R. Free Europe, Germany	
	48.98	35/100		N. Luzon (VOA), Philipp.	
	48.98	120-249		Peking. China	
6128	48.96	2.5	OAX7A	R. Cuzco, Peru	
	48.96	10	HJTB	R. Militar, Colombia	
6130	48.94	0.25	HI1G	Radiodifusora HIG, Dom. R.	
	48.94	2	VLT6	Port Moresby, New Guinea	
	48.94	0.25	HCFB2	R. Condor, Ecuador	
	48.94	0.1	XERCM	R. Central de Mexico, Mex.	
	48.94	10/100	LKJ	R. Norway, Norway	
	48.94	10/100		R. Free Europe, Germany	
	48.94	1		R. Lao, Laos	
	48.94	100		R. Nacional, Spain	
	48.94	0.5	CHNX	Halifax, Canada	
	48.94			AIR, Gauhati, India	
6135	48.90	0.25	HRME2	La Voz del Patio, Hond. R.	
	48.90	4		Papéete, Tahiti	
	48.90	7.5	ZHP	R. Malaya, Malaya	
	48.90	0.5	CP30	R. Grigota, Bolivia	
	48.90	7.5	PRC21	R. Soc. Gaucha, Brazil	
	48.90			Kaunas, USSR	
	48.90			Ulan Ude, USSR	
	48.90	1		Athens (FBS), Greece	
	48.90	0.25	HCFK5	R. Cuenca, Ecuador	
6140	48.86	15/100		BBC, London, Gt. Britain	
	48.86	3		R. Tripoli, Libya	
	48.86	0.4	YNWA	R. Mundial, Nicaragua	
	48.86	0.5	HOQQ	R. Nacional, Panama	
	48.86	2	VLW6	Perth, Australia	
	48.86	0.25	DYH2	Voice of Cebu, Philipp.	
	48.86	8/100		München (VOA), Germany	
	48.86	0.5	TGHC	R. Universal, Guatemala	
	48.86	2.5	CXA20	R. Monte Carlo, Uruguay	
	48.86	1	HCOV5	Ondas del Volante Ecuador	
6145	48.82	10/100		Allouis, France	
	48.82	2.5		Enugu, Nigeria	
	48.82	0.3	HRXN4	R. Concordia, Hond. R.	
	48.82	120/240		Peking, China	
	48.82	50		Algier 3, Algeria	
	48.82	50/200	KNBH	Dixon, USA	
	48.82	1		Fort de France, Martinique	
6147	48.80	50	PRL9	R. Nacional, Rio de Jan., Br.	
6150	48.78	5	VLR6	Melbourne, Australia	
	48.78	15/100	GRW	BBC, London, Gt. Britain	
	48.78	10	CE615	R. Coop. Vitalicia, Chile	
	48.78	100		R. Belgrade, Yugoslavia	
	48.78	0.25	CP12	R. Loyola, Bolivia	
	48.78	0.25	OAX1A	R. Delcar, Peru	
	48.78	0.5	TGAZ	R. Continental, Guatemala	
	48.78	1	TIGPH	R. Monumental, Costa Rica	
	48.78	0.25	HCDC2	R. Cenit, Ecuador	
6152	48.76	7.5	EQR2	R. Täbriz, Iran	
6153	48.75	5	OBX4G	R. Excelsior, Peru	
6154	48.74	3	CSB52	R. Renascenca, Portugal	
6155	48.74	0.2	OEI21	Wien, Austria	
	48.74	10	CXA13	R. Carve, Uruguay	
	48.74	0.15	4VWA	R. Citadelle, Haiti	
	48.74	120/240		Peking, China	
	48.74	35		Salonika (VOA), Greece	

kc/s	m	kW	Call	Stations and countries	Rem.
6155	48.74	2	HRUC	R. Centro, Hond. R.	
6160	48.70	1	CP40	Emisora LAB, Bolivia	
	48.70	1	OCX4G	R. Mundo, Peru	
	48.70	10	HJKJ	Nueva Granada, Colombia	
	48.70	10/1		Tokyo (FEN), Japan	
	48.70	0.5	CBUX	Vancouver, Canada	
	48.70	0.25	TGZA	R. Club, Guatemala	
	48.70	10/100		R. Free Europe, Germany	
6165	48.66	1	3WT13	R. Nacional, S. Vietnam	
	48.66	100	HER3	Schwarzenburg, Switzerland	
	48.66	15/100		BBC, London, Gt. Britain	
	48.66	7.5	ZYR58	R. Cultural Brazil	
6170	48.62	0.25	DUH2	Philipp. Broadc. Sce., Philipp.	
	48.62	1	CXA21	R. Fenix, Uruguay	
	48.62	0.25	YSHQ	R. Progreso, El Salvador	
	48.62	10	YDL3	Padang, Indonesia	
	48.62	7.5/20		BBC, Cyprus, Cyprus	
	48.62	0.2	HCPJ1	R. Fluminense, Ecuador	
6175	48.58	7.5/100		BBC, Singapore, Malaya	
	48.58	0.2	HI1R	Voz de Fundacion, Dom. R.	
	48.58	0.3	HP5G	R. Panamericana, Panama	
	48.58	20/50		R. Liberty, Germany	
	48.58	0.3	OAX7C	R. Tahuantisuyo, Peru	
	48.58	0.1	XEXA	R. Gobernacion, Mexico	
	48.58	15/100		BBC, London, Gt. Britain	
	48.58	0.5		Isfahan, Iran	
	48.58	10/100		Allouis, France	
	48.58	1	HRTW4	Un. R. Hondureña, Hond. R.	
6176	48.58			Shensi, China	
6177	48.56	5/7.5		R. Athens, Greece	
6178	48.55	1	4VES	La Voix de St. Marc, Haiti	
6180	48.54	1	TGWB	R. Nacional, Guatemala	
	48.54	15/100		BBC, London, Gt. Britain	
	48.54	10	LRA34	R. Nac. Mendoza, Argentina.	
	48.54	0.3	OBX4P	R. Miraflores, Peru	
	48.54	120/240		R. Peking, China	
6183	48.52	1		R. Dalat, Vietnam (Rep.)	
6185	48.50	1		R. Addis Ababa, Ethiopia	
	48.50	10	ZYR78	R. Bandeirantes, Brazil	
	48.50	10	HJCT	R. Televisora Nacional, Col.	
	48.50	10/100	LLI	R. Norway, Norway	
	48.50	0.5	YNVP	Voz de Nicaragua, Nicaragua	
	48.50	0.5	HRMT4	R. Molino Rojo, Honduras	
	48.50	0.45	CP9	R. Amauta, Bolivia	
	48.50	20/50		R. Liberty, Germany	
	48.50	10/100		R. Free Europe, Germany	
	48.50	8 100		Munich (VOA), Germany	
6190	48.47	5/25/50/100		Vatican City, Vatican State	
	48.47	0.5	OAX4G	R. Lima, Peru	
	48.47	0.25	YNUW	R. Dario, Nicaragua	
	48.47	5	CE619	R. Corporacion, Chile	
	48.47	1	4XB44	Tel Aviv, Israel	
	48.47	1	YSUA	R. Mil. Cincuenta, El Salv.	
	48.47		VUD	AIR, Delhi, India	
6195	48.43	15/100		BBC, London, Gt. Britain	
	48.43	1	HJEZ	Voz de Cali, Colombia	
	48.43	0.5	HRD2	Voz de Atlantida, Hond. R.	
	48.43	20		Pyongyang, Korea	
	48.43	100		Budapest, Hungary	
	48.43	7.5	PRD21	Emis. Continental, Brazil	
	48.43	1		Cayenne, Guiana (Fr.)	
	48.43	0.5	CP23	R. Guadalquirie, Bolivia	
6198	48.40	0.3	OAX1B	R. Piura, Peru	
6200	48.39	10/100		Allouis, France	
	48.39	0.1	TGKN	R. Novedades, Guatemala	
	48.39	1.2	4VHW	R. Haiti, Haiti	
	48.39	10	HRNQ	R. Morazan, Honduras	
	48.39	7.5/20		Damascus, Syria	
	48.39	120/240		Peking, China	
	48.39	0.3		R. Nac. Espejo, Ecuador	
6205	48.35	0.25	HCEH6	R. Cosmopolita, Ecuador	
				6210 – 7100 kc/s	
6210	48.31			Bucuresti, Rumania	
6215	48.27	50/100		Cairo, Un. Arab. Rep.	
	48.27	0.25	HCMV	R. San Miguel, Ecuador	
6220	48.23	0.3	4VCP	La Voix du Nord, Haiti	
6225	48.19	15/120		Peking, China	
6240	48.07	0.1		Mytilini, Greece	
6250	48.00	5		Pyongyang, Korea	
	48.00	50/100		Cairo, Un. Arab. Rep.	
6251	48.00	0.2	HCVM6	R. Once de Noviembre, Ec.	
6255	47.96	0.25	HCGE5	R. Mundial, Ecuador	
6260	47.92			Chinghai, China	
6280	47.77			Sinkiang, China	
6295	47.66	3	OTM1	R. Congo Belge, Belg. Congo	
6299	47.62	0.5		Istanbul, Tec. Univ., Turkey	

kc/s	m	kW	Call	Stations and countries	Rem.
6305	47.58	1		Andorradio, Andora	
6317	47.50			R. Oriente, Cuba	
6330	47.39			Union R., Cuba	
6345	47.28	5		R. Ulan Bator, Mongolia	
6353	47.22	15		Ashkhabad, USSR	
6360	47.17	100	CSA38	R. Nacional, Portugal	
6373	47.09	10		Atlantico, Lisboa, Portugal	
6374	47.09	100	CSA21	R. Nacional, Portugal	
6383	47.05	0.5	EPP2	Shiraz, Iran	
6449	46.51	1		Ankara Tec. School, Turkey	
6480	46.30	0.06		R. Herakleion, Greece	
6500	46.16			Chinghai, China	
6525	45.98	0.3		Carpenission, Greece	
6590	45.52	0.1		Chios, Greece	
6596	45.48	15/120		Peking, China	
6600	45.45	0.4	TAZ	R. Izmir, Turkey	
6633	45.23	0.2	HCRL2	R. Quinta Piedad, Ecuador	
6670	45.00			R. Calatrava, Sp. Guinea	
6690	44.80	0.2		Technical School, Turkey	
6715	44.68	0.5		R. Sanandaj, Iran	
6730	44.58	15		Tashkent, USSR	
6752	44.43	0.5		Larissa, Greece	
6790	44.18	7.5/20		BBC, Cyprus, Cyprus	
	44.18	15/120		Peking, China	
6810	44.05	15/120		Peking, China	
6820	43.99			Minsk, USSR	
6825	43.96	15		Tashkent, USSR	
6840	43.85			Inner Mongolia, China	
6850	43.80	0.5		R. Rizaiyeh, Iran	
6851	43.79	0.5		Mahabad, Iran	
6870	43.73	1	CR6RR	R. Diamang, Angola	
	43.73	0.5		R. Meshed, Iran	
6875	43.64	0.25		Seoul (AFKN), Korea	
6890	43.54	15/120		Peking, China	
6925	43.33			Yunnan, China	
6965	43.07	1/2		Seoul (VUNC), Korea	
6974	43.02			Inner Mongolia, China	
6995	42.89	1		R. Mediterraneo, Spain	
	42.89	15/120		Peking, China	
7000	42.86	0.4		Izmir, Turkey	
	42.86	1	EFE34	R. Atlantico, Canary Isl.	
7010	42.80	10/50		Karachi, Pakistan	
7018	42.74	1		Istanbul Tec. Univ., Turkey	
7025	42.70	0.08		Roberts College R., Turkey	
7050	42.55	50/100		Cairo, Un. Arab. Rep.	
	42.52			Sinkiang, China	
7060	42.49	120/240		Peking, China	
7070	42.42	1	CR6RR	R. Diamang, Angola	
7072	42.42	5		R. Mogadiscio, It. Somaliland	
7080	42.37	120/240		Peking, China	
	42.37	1	HSQ	Bangkok, Thailand	
7094	42.28	0.3		Jannina, Greece	
7096	42.27	1		Lahore, Pakistan	
				7100 – 7300 kc/s (41 m.b.)	
7100	42.25	100		~~R. Nacional, Spain~~	29/6 62
	42.25	15		Tashkent, USSR	
7105	42.22	10/100		R. Free Europe, Germany	
	42.22		VUD	AIR, Delhi, India	
	42.22	10/100		Allouis, France	
	42.22	1	CR6RO	R. Clube do Bie, Angola	
	42.22	4		R. Niger, Niger	
7110	42.19	10		Colombo, Ceylon	
	42.19	15/100		BBC, London, Gt. Britain	
	42.19	7.5		Kampala, Uganda	
	42.19	8/100		München (VOA), Germany	
	42.19			Rawalpandi, Pakistan	
7115	42.16	120/240		Peking, China	
	42.16	1	CR6AA	R. Lobito, Angola	
	42.16	50		Algier 4, Algeria	
	42.16	10/100		R. Free Europe, Germany	
7118	42.14	10	YDU6	Denpassar, Indonesia	
7120	42.13	7.5/100		BBC, Singapore, Malaya	
	42.16	10/100		Allouis, France	
	42.13	15/100		BBC, London, Gt. Britain	
7125	42.11	35		Courier (VOA), Greece	
	42.11	50	XZK4	Rangoon, Burma	
	42.11	4		R. Nationalc, Guinea (Rep.)	
	42.11	7.5/100		Warsaw, Poland	
	42.11	120/240		Peking, China	
	42.11		VUD	AIR, Delhi, India	
7130	42.08	15/100		BBC, London, Gt. Britain	
	42.08	20/50		R. Liberty, Germany	
7132	42.06	40		Kiew, USSR	
7135	42.05	0.3	OEI31	Wien, Austria	
	42.05	15/100		BBC, London, Gt. Britain	
	42.05	120/240		Peking, China	

kc/s	m	kW	Call	Stations and countries	Rem.
7135	42.05	7.5/100		BBC, Singapore, Malaya	
7140	42.02	1	HSK6	R. Thailand, Thailand	
	42.02	25	3AM4	Monte Carlo, Monaco	
	42.02	15/100		BBC, London, Gt. Britain	
	42.02	7.5		Dacca, Pakistan	
	42.02	1	YDR2	Ambon, Indonesia	
	42.02		VUD	AIR, Delhi, India	
	42.02			AIR, Hyderabad, India	
7142	42.01	0.25	CR6RA	R. Clube de Angola, Angola	
	42.01	5/7.5		R. Athens, Greece	
7143	42.00	0.1	TAO5	Tec. School, Istanbul, Turkey	
7145	41.99	10/100		R. Free Europe, Germany	
	41.99	1		R. Lao, Laos	
	41.99	7.5/20		Damascus, Syria	
7150	41.96	15/100		BBC, London, Gt. Britain	
	41.96	0.25	OQ2AB	R. Elisabeth, Belg. Congo	
	41.96			Erevan, USSR	
	41.96	20		Khabarovsk, USSR	
	41.96	120/240		Peking, China	
	41.96			Gauhati, India	
	41.96	6		Nairobi, Kenya	
	41.96		VUD	AIR, Delhi, India	
7152	41.94	0.5	CR6RD	Nova Lisboa, Angola	
7154	41.95			Naval War School R., Turkey	
7155	41.92	4		Tananarive, Madagascar	
	41.92	10/100		R. Free Europe, Germany	
	41.92	0.5/50	BED73	Taipei, Taiwan	
7156	41.92	3	OQ2AD	R. VOV, Belg. Congo	
7157	41.92	3		Tirana, Albania	
7160	41.90	10/100		Allouis, France	
	41.90	0.5/5		S. Isabel, Sp. Guinea	
	41.90	5/100	VUD	AIR, Delhi, India	
	41.90	35/100		Okinawa (VOA), Ryukyu Isl.	
	41.90	120/240		Peking, China	
	41.90	8/100		München (VOA), Germany	
	41.90			AIR, Bhopal, India	
7161	41.89	0.15	CR6RB	R. Cl. de Benguela, Angola	
7165	41.87	10/100		R. Free Europe, Germany	
	41.87	10/100		Allouis, France	
7167	41.86	10		Dar-es-Salaam, Tanganyika	
7170	41.84			AIR, Simla, India	
	41.84		VUD	AIR, Delhi, India	
	41.84	100	DMQ7	Deutsche Welle, Germany	
	41.84	20/50		R. Liberty, Germany	
	41.84	7.5		Aden, Aden	
	41.84	15/120		Peking, China	
7171	41.84	4		R. Sénégal, Sénégal	
7175	41.81	10/100		R. Free Europe, Germany	
	41.81	40		Kiev, USSR	
	41.81			Caltanissetta, Italy	
7180	41.78	1	BEG23	Taipei, Taiwan	
	41.78	20/100	JOA/B7	R. Japan	
	41.78	10/100		R. Free Europe, Germany	
	41.78	5		Mombasa, Kenya	
	41.78	3		Benghazi, Libya	
	41.78	1	HLK4	Seoul, Korea	
	41.78	100		Baghdad, Iraq	
	41.78		VUD	AIR, Delhi, India	
7183	41.76	10		R. Cambodge, Cambodia	
7185	41.75	15/100		BBC, London, Gt. Britain	
	41.75	40		Kiev, USSR	
	41.75	100		R. Prague, Czechoslovakia	
7189	41.73	7.5/2.5	4XB49	Israel	
7190	41.72	5		Biak, Neth. New Guinea	
	41.72	10		Colombo, Ceylon	
	41.72	4		Cotonou, Dahomey	
	41.72		VUD	AIR, Delhi, India	
7192	41.71	10/100		R. Free Europe, Germany	
7195	41.70			Bucuresti, Rumania	
7200	41.67	15/100		BBC, London, Gt. Britain	
	41.67	40		Kiev, USSR	
	41.67			Stalinabad, USSR	
	41.67	0.25	OQ2AC	R. College, Belg. Congo	
	41.67	100		R. Belgrade, Yugoslavia	
	41.67	7.5	ZHL10	R. Malaya, Malaya	
	41.67	120/240		Peking, China	
7205	41.64	0.05	CR7RB	R. Pax, Mozambique	
	41.64	100	DMQ7	Deutsche Welle, Germany	
	41.64	1		R. Hué, S. Veitnam	
	41.64	10/100		R. Free Europe, Germany	
	41.64	35		Courier (VOA), Greece	
	41.64	35/50/100		Tangier (VOA), Marocco	
7210	41.61	100	HEI3	Schwarzenburg, Switzerland	
	41.61	100		Hörby, Sweden	
	41.61			AIR, Calcutta, India	
	41.61	15/100		BBC, London, Gt. Britain	
	41.61	5	YDH3	Semarang, Indonesia	

kc/s	m	kW	Call	Stations and countries	Rem.
7210	41.61	20		Khabarovsk, USSR	
	41.61	10/100	LLS	R. Norway, Norway	
	41.61	4/25		R. Mali, Dakar, Sénégal	
	41.61	10		Nairobi, Kenya	
7214	41.58	0.5		Kavala, Greece	
7215	41.58	1	BEC27	AFRS, Taiwan	
	41.58	25		R. Abidjan, Ivory Coast	
7220	41.55	15/100		BBC, London, Gt. Britain	
	41.55	10/50/100		R. Australia, Australia	
	41.55	10		Lusaka, Rhodesia	
	41.55	50	YDF5	Djakarta, Indonesia	
	41.55	100		Budapest, Hungary	
	41.55	10/100		Allouis, France	
	41.55	20/50		R. Liberty, Germany	
	41.55	7.5	ZL12	Wellington, New Zealand	
7225	41.52	20/50		R. Liberty, Germany	
	41.52	7.5		Dacca, Pakistan	
	41.52			Szechuan, China	
	41.52	10/100		R. Free Europe, Germany	
	41.52	1		Lahore, Pakistan	
7229	41.50	20		Paradys, So. Africa	
7230	41.49	10		Voice of Tangier, Morocco	
	41.49	15/100		BBC, London, Gt. Britain	
	41.49	0.35	CR6RM	Moçamedes, Angola	
	41.49	120/240		Peking, China	
	41.49	0.5/50	BED7	Taipei (BCC), Taiwan	
	41.49	1	HSQ	Bangkok, Thailand	
7235	41.47	10/100		R. Free Europe, Germany	
	41.47	100		Praha, Czechoslovakia	
	41.47	10		Colombo, Ceylon	
	41.47	35/50/100		Tangier (VOA), Morocco	
7238	41.45	5		R. Clube de Mozambique	
7240	41.44	15/120		Peking, China	
	41.44	10/100		R. Belgrade, Yugoslavia	
	41.44	10/100	LLR	R. Norway, Norway	
	41.44			AIR, Bombay, India	
	41.44	20	YDP3	Medan, Indonesia	
	41.44	10/100		Allouis, France	
	41.44	10		Nairobi, Kenya	
	41.44	1	BEC23	Taichung, Taiwan	
	41.44	4		R. Garoua, Fr. Cameroon	
7242	41.42	20/100	JOA/B7	R. Japan	
7245	41.41	0.3	OEI22	Wien, Austria	
	41.41	4	OEI22	Kronstorf, Austria	
	41.40	20/50		R. Liberty, Germany	
	41.41	10/100		R. Free Europe, Germany	
	41.40	0.25	CR6RE	Malanje, Angola	
7250	41.38	15/100		BBC, London, Gt. Britain	
	41.38			AIR, Lucknow, India	
	41.38	8/100		Munich (VOA), Germany	
7254	41.36	7.5		R. Clube de Mozambique	
7255	41.35	20/50		R. Liberty, Germany	
	41.35	0.3		Beira, Mozambique	
	41.35	120		R. Sofia, Bulgaria	
	41.36	20	YDJ2	Jogjakarta, Indonesia	
7257	41.34	5	JKH	Tokyo, Japan	
7260	41.32	15/100		BBC, London, Gt. Britain	
	41.32	7.5/100		BEC, Singapore, Malaya	
	41.32			AIR, Madras, India	
	41.32	35		Salonika (VOA), Greece	
	41.32	4		Tananarive, Madagascar	
	41.32	12	3WT12	R. National, Vietnam (Rep.)	
7262	41.30	3.5	BEC32	Taipei, Taiwan	
7265	41.29	1.5		Bad Dürrheim (SWF), Germ.	
	41.29	1		R. Dalat, Vietnam	
	41.29	120/240		Peking, China	
	41.29	4		R. Lomé, Togo	
7270	41.27	7.5	YDB3	Djakarta, Indonesia	
	41.27	12		Motala, Sweden	
	41.27	5/25/50/100		Vatican City, Vatican State	
	41.27			Erevan, USSR	
	41.27			Magadan, USSR	
	41.27	1	BEC25	Hualien, Taiwan	
	41.27			Kashmir, India	
7275	41.24	20		Paradys, So. Africa	
	41.24	50/60/100		R. Roma, Italy	
	41.24	20/50		R. Liberty, Germany	
	41.24	100		R. Prague, Czechoslovakia	
7277	41.25	20		Dar-Es-Salaam, Tanganyika	
7280	41.21	10/100		Allouis, France	
	41.21	15/100		BBC, Gt. Britain	
	41.21	5/25/50/100		Vatican City, Vatican State	
	41.21	10/50		Karachi, Pakistan	
	41.21	7.5	ZHL7	R. Malaya, Malaya	
	41.21			Kansu, China	
	41.21	50		Komsomolsk, USSR	
	41.21	0.5	DXH2	Mindanao, Philipp.	

kc/s	m	kW	Call	Stations and countries	Rem.
7280	41.21	1	BEC22	Taipei, Taiwan	
7284	41.18	0.5		Florina, Greece	
7285	41.18	100	TAS	R. Ankara, Turkey	
	41.18	5	JKI	Tokyo, Japan	
	41.18	10/100		R. Free Europe, Germany	
	41.18	10/50		Karachi, Pakistan	
	41.18	5		Ibadan, Nigeria	
	41.18	50		Kabul, Afghanistan	
	41.18	2.5		Lusaka, Rhodesia	
	41.18	0.2	CR6RP	Novo Redondo, Angola	
7288	41.16	5		Kisumu, Kenya	
7290	41.15	12	3WT12	R. National, S. Vietnam	
	41.15		VUD	AIR, Delhi, India	
	41.15	3		Pan American Radio, Tang.	
	41.15	10/50		Karachi, Pakistan	
	41.15	100	DMQ7	Deutsche Welle, Germany	
	41.15	50/60/100		R. Roma, Italy	
	41.15	3		R. Addis Ababa, Ethiopia	
7295	41.12	20	YDQ3	Makassar, Indonesia	
	41.12	20		Paradys, So. Africa	
	41.12	0.25	EAJ8AB	R. Cl. Tenerife, Canary Isl.	
	41.12	120/240		*Peking, China*	
	41.12	10/100		R. Free Europe, Germany	
	41.15	4		R. Inter Equatoriale, Congo	
	41.12	5/7.5		R. Athens, Greece	
7300	41.10	3.5	BEC36	Taipei, Taiwan	
	41.09	10		Colombo, Ceylon	
	41.10	5		Deutschl.sender (*DDR*), Ger.	24/6
				7312–9500 kc/s	
7312	41.03	0.15	YNWN	R. Granada, Nicaragua	
7315	41.01	7.5/100		Warsaw, Poland	
7324	40.96			Kansu, China	
7325	40.96	15/100		BBC, London, Gt. Britain	
7330	40.93			Petropavlovsk, USSR	
	40.93			Ashkhabad, USSR	
	40.93			Stalinabad, USSR	
**7335	40.90	3	CHU	Dominion Obs., Canada	
7340	40.87	100		R. Prague, Czechoslovakia	
7370	40.71	15/120		Peking, China	
7385	40.62			Sinkiang, China	
7400	40.54			Hanoi, N. Vietnam	
7480	40.08	15/120		Peking, China	
7500	40.00	15/120		Peking, China	
7545	39.76	2	TAO	Istanbul Univ. R., Turkey	
7570	39.63	2		Angmagssalik, Greenland	
7602	39.46	0.5	YNRM	R. Musun, Nicaragua	
7620	39.37	15/120		Peking, China	
	39.37	0.5	HSQ	Bangkok, Thailand	
7650	39.22			Murmansk, USSR	
7651	39.22	1	TAR8	Ankara, Turkey	
7660	39.16	1	CE766	R. Yungay, Chile	
	39.16	0.25	YNMS	R. Philips, Nicaragua	
7670	39.11	50		R. Sofia III, Bulgaria	
7753	38.67	0.15	YNCA	R. Atlantico, Nicaragua	
7770	38.61	15/120		Peking, China	
7800	38.50	0.4		Bata, Sp. Guinea	
7850	38.20	3		R. Tirana, Albania	
7890	38.02	0.1	YNBX	R. Oriental, Nicaragua	
7935	37.81	10	HLK52	Seoul, Korea	
	37.81	20	PSL	Agencia Nacional, Brazil	
7940	37.78	0.5	EPR16	R. Resht, Iran	
	37.78	1.2		R. Alicante, Spain	
7948	37.75	1	CMQ	Bissau, Port. Guinea	
7950	37.70	0.5		Kozani, Greece	
7990	37.55	0.5	EPU3	Ahwaz, Iran	
8036	37.34	2		Beyruth, Lebanon	
8900	33.70	0.2	HCJC3	R. Fenix, Ecuador	
9009	33.03	7.5/50	4XB31	Tel Aviv, Israel	
9020	33.26	15/120		Peking, China	
9030	33.20	1	COBZ	R. Salas, Cuba	
9064	33.09	15/120		Peking, China	
9090	33.00			Inner Mongolia, China	
9170	32.72	15/120		*Peking, China*	
9180	32.68			Petropavlovsk, USSR	
9200	32.61	0.5	CE920	R. Militar Austral, Chile	
9210	32.57	50	OTH	R. Congo Belg., Belg. Congo	
9235	32.45	1	COBQ	R. Onda Musical Cubana, C.	
9250	32.43	15		Alma Ata, USSR	
9254	32.42			Bucuresti, Rumania	
9340	32.12	15/120		Peking, China	
	32.12	15		Alma Ata, USSR	
9360	32.05	50		R. Nacional, Spain	
9362	32.05	1	COBC	R. Progreso, Cuba	
9370	32.02	100		R. Nacional, Spain	
9374	32.00		OAX6L	R. Nac. Tacna, Peru	
9377	31.99	20		Khabarovsk, USSR	
9380	31.98	15		Alma Aata, USSR	
9385	31.98	50	OTM2	R. Congo Belge, Belg. Congo	
9390	31.95	15/120		Peking, China	
9400	31.92			Hanoi, N. Vietnam	
9410	31.88	15/100		*BBC, London, Gt. Britain*	
9460	31.72	120/240		Peking, China	
9465	31.70	20	TAP	R. Ankara, Turkey	
9470	31.68			Sinkiang, China	
9475	31.66	50/100		Cairo, Un. Arab. Rep.	
9480	31.65	120/240		Peking, China	
9490	31.61	1	EFE34	R. Atlantico, Canary Isl.	
	31.61			Tibet, China	
9492	31.60			Inner Mongolia, China	
				9500–9775 kc/s – 31 metre band	
9500	31.58	10	XEWW	Voz de la Am.Latina, Mexico	
	31.58	0.1	CP6	R. Illimani, Bolivia	
	31.58			Petropavlovsk, USSR	
	31.58			Magadan, USSR	
	31.58			Chinghai, China	
9502	31.57	1	CR6RF	R. Cl. de Benguela, Angola	
9504	31.57	100	OLR3B	Praha, Czechoslovakia	
9505	31.56	0.3	OEI32	Wien, Austria	
	31.56	7.5	PRB22	R. Record, Brazil	
	31.56		VUD	AIR, Delhi, India	
	31.56	100		R. Belgrade, Yugoslavia	
	31.56	0.3		Salisbury, Rhodesia	
	31.56	0.25	HOLA	R. *Atlantico*, Panama	
	31.56	10/100		R. Free Europe, Germany	
	31.56	0.1	OAX6H	R. Tacna, Peru	
	31.56			AIR, Gauhati, India	
	31.56	1	CP38	La Coz del Sur, Bolivia	
9510	31.55	15/100		BBC, London, Gt. Britain	
	31.55	10/50/100		R. Australia, Australia	
	31.55	120/240		Peking, China	
	31.55	1.5	BEC24	Kaohsiung, Taiwan	
	31.55	15	YVXJ	R. Barquisimeto, Venezuela	
	31.55	0.5	OAX4W	R. America, Peru	
9513	31.53	3		R. Bangui, C. African Rep.	
9515	31.53	4		Tananarive, Madagascar	
	31.53	100	TAT	R. Ankara, Turkey	
	31.53	50/200	KNBH	Dixon, USA	
	31.53	50/60/100		R. Roma, Italy	
	31.53	100	OLR3D	Praha, Czechoslovakia	
	31.53	10	CXA71	R. Sarandi, Uruguay	
	31.53	4		Ouagadougou, Up. Volta	
9520	31.51	7.5	ZL18	Wellington, New Zealand	
	31.51	10/100		Colombo, Ceylon	
	31.51	50	OZF5	Herstedvester, Denmark	
	31.51	35		Salonika (VOA), Greece	
	31.51	10/100		*Allouis*, France	
	31.51	0.25	OAX4J	R. La Cronica, Peru	
9523	31.50	20		Paradys, So. Africa	
9525	31.50	15/100		BBC, London, Gt. Britain	
	31.50	20/100	JOA/B9	R. Japan	
	31.50	7.5/100		Warsaw, Poland	
	31.50	0.25		Nampula, Mozambique	
9530	31.48			AIR, Calcutta, India	
	31.48	20/50	WRUL	R. Boston, USA	
	31.48	15/100		BBC, London, Gt. Britain	
	31.48	5		Dar-Es-Salaam, Tanganyika	
	31.48	1	YVMZ	Maracaibo, Venezuela	
	31.48	35		Courier (VOA), Greece	
9535	31.46	100		Hörby, Sweden	
	31.46	35/100		N. Luzon (VOA), Philipp.	
	31.46	0.25	COCO	Periodico del Aire, Cuba	
	31.46	100	HER4	Schwarzenburg, Switzerland	17/6.61
	31.46	5	XEDF	R. Dif., Mexico, Mexico	
	31.46	5		Lagos, Nigeria	
9540	31.45	10/50/100		R. Australia, Australia	
	31.45	10/100		Allouis, France	
	31.45	7.5	ZL2	Wellington, New Zealand	
	31.45	50	XZK5	Rangoon, Burma	
	31.45	7.5/100		Warsaw, Poland	
9543	31.44	0.5	HRRH5	Voz de Occidente, Hond. R.	
9545	31.43	0.25	XEFT	La Voz de Vera Cruz, Mex.	
	31.43	7.5	4VC	R. Commerce, Haiti	
	31.43	0.3	OAX4K	R. Central, Peru	
	31.43	7.5	ZYS43	R. Emis. Paranaense, Brazil	
	31.43	8/100		München (VOA), *Germany*	
	31.40	4/50		R. Inter Equatoriale, Congo	
9550	31.41	100	OLR3A	Praha, Czechoslovakia	
	31.41	10/100		Allouis, France	
	31.41	2	DZI2	Manila, Philipp.	
	31.41	0.25	HCUM2	R. Universal, Ecuador	
	31.41	120/240		Peking, China	
	31.41	0.5	YDQ2	Makassar, Indonesia	

kc/s	m	kW	Call	Stations and countries	Rem.
9550	31.41	15/100		BBC, London, Gt. Britain	
	31.41			AIR, Bombay, India	
	31.41	10/100	LLD	R. Norway, Norway	
	31.41	5		Grenada, Windward Isl.	
	31.41		OAX1Z	R. Nac. Tumbes, Peru	
9555	31.40	5	YSS	R. Nacional, El Salvador	
	31.40	10	OIX2	Pori, Finland	
	31.40	7.5/20		Damascus, Un. Arab. Rep.	
	31.40	15/100		BBC, London, Gt. Britain	
	31.40	120/240		Peking, China	
	31.40			Stalinabad, USSR	
	31.40	0.5	XETT	La Hora Exacta, Mexico	
	31.40		VUD	AIR, Delhi, India	
	31.40	35/50/100		Tangier (VOA), Morocco	
9560	31.38	15/100		BBC, London, Gt. Britain	
	31.38	10/50/100		R. Australia, Australia	
	31.38	10/100		Allouis, France	
	31.38	7.5/100		BBC, Singapore, Malaya	
	31.38	10		Yamata (VUNC), Japan	
9562	31.37	40	OAX4R	R. Nacional Lima, Peru	
9565	31.37	64	ZYK3	R. Jorn. do Commercio, Br.	
	31.36	20/50		R. Liberty, Germany	
	31.36	7.5		Kuching, Sarawak	
9570	31.35		YVOM	San Cristobal, Venezuela	
	31.35	15/100		BBC, London, Gt. Britain	
	31.35	100		Bucuresti, Rumania	
	31.35	0.25	DUH3	Manila, Philipp.	
9575	31.33	50/60/100		R. Roma, Italy	
	31.33	10	ZYZ27	R. Mayrink Veiga, Brazil	
	31.33	0.5/50	BED66	Taipei BCC, Taiwan	
	31.33		VUD	AIR, Lucknow, India	
9580	31.32	10/50/100		R. Australia, Australia	
	31.32	15/100		BBC, London, Gt. Britain	
	31.32	2.5		Lusaka, Rhodesia	
9585	31.30	0.3	OBX4K	R. Selecta, Peru	
	31.30	10/100		Allouis, France	
	31.30	50	CKLP	R. Canada, Canada	
	31.30	20/50		R. Liberty, Germany	
	31.30	1	ZYR56	R. Excelsior, Brazil	
	31.30	100		R. Nacional, Spain	
	31.30	120/240		Peking, China	
	31.30	50	YDF6	Djakarta, Indonesia	
	31.30	35		Salonika (VOA), Greece	
	31.30		VUD	AIR, Delhi, India	
	31.30	4		R. Tchad, Tchad	
	31.30	35/50/100		Tangier (VOA), Morocco	
9586	31.29	0.25		Quelimane, Mozambique	
9590	31.28	50/100		R. Nederland, Holland	
	31.28	0.2	OAX8E	R. Loreto, Peru	
	31.28			AIR, Madras, India	
	31.28	50/200	KNBH	Dixon, USA	
	31.28	0.25	HI2G	R. Dif. HIG, Dom. Rep.	
	31.28	7.5		Kampala, Uganda	
9595	31.27	10/100		R. Free Europe, Germany	
	31.27	10	JOZ3	Tokyo, Japan	
	31.27	1	ZYN29	R. Cultura da Bahia, Brazil	
	31.27	10	CXA72	R. Monte Carlo, Uruguay	
9600	31.25	15/100		BBC, London, Gt. Britain	
	31.25	10	CE960	R. Pres. Balmaceda, Chile	
	31.25	50/200	KCBR	Delano, USA	
	31.25	40		Leningrad, USSR	
	31.25	7.5		Khartoum, Sudan	
	31.25	0.25	XEYU	Universidad Nac., Mexico	
9605	31.23	10/100		R. Free Europe, Germany	
	31.23	100		R. Nacional, Spain	
	31.23	1	CP22	R. Universidad, Bolivia	
9607	31.23	5/7.5		R. Athens, Greece	
	31.23	0.5	HP5J	La Voz de Panama, Panama	
9610	31.22	10/2	VLW/X 9	Perth, Australia	
	31.22	3		Tirana, Albania	
	31.22		VUD	AIR, Delhi, India	
	31.22	4		R. Mauritanie, Senegal	
	31.22	1	HRZN	R. Pinares Honduras	
	31.22	10	ZYC8	R. Tupi, Brazil	
	31.22	10/100	LLG	R. Norway, Norway	
	31.22	5/10	CR8AB	R. Goa, Goa	
	31.22	0.3	OAX8C	R. Nacional Iquitos, Peru	
9612	31.21	1	CR6RI	R. Diamang, Angola	
9614	31.20	7.5		Dacca, Pakistan	
9615	31.20	10/50/100		R. Australia, Australia	
	31.20	35/50/100		Tangier (VOA), Morocco	
	31.20	0.3	OEI33	Wien, Austria	
	31.20	15/100		BBC, London, Gt. Britain	
	31.20	0.25	DUH4	Manila, Philipp.	
	31.20	3	TIDCR	La Voz de la Victor, Costa R.	
	31.20	35/100		Okinawa (VOA), Ryukyu Isl.	
9620	31.19	7.5	CR7DE	R. Clube de Mozambique	

kc/s	m	kW	Call	Stations and countries	Rem.
9620	31.19	10/100		Allouis, France	
	31.19	7.5		R. Addis Ababa, Ethiopia	
	31.19	12	3WT11	R. National, Vietnam (Rep.)	
	31.19	7.5	ZYR96	R. 9 de Julho, Brazil	
	31.19	1	COJK	Voz del Camagüeyana, Cuba	
	31.19	100		Hörby, Sweden	
	31.19	20	CXA6	S.O.D.R.E., Uruguay	
	31.19	15/120		Peking, China	
	31.19	35/100		Tangier (VOA), Morocco	
	31.19	7.5	ZL8	Wellington, New Zealand	
	31.19	10/100		R. Belgrade, Yougoslavia	
9625	31.17	1	OAX8K	R. Atlantida, Peru	
	31.17	7.5/100		BBC, Singapore, Malaya	
	31.17			Erevan, USSR	
	31.17	15/100		BBC, London, Gt. Britain	
	31.17	10	XEBT	R. Satelite, Mexico	
	31.17	50		Brazzaville, Congo	
9630	31.15	50	CKLO	R. Canada, Canada	
	31.15		VUD	Delhi, India	
	31.15	50/60/100		R. Roma, Italy	
	31.15	15		R. Africa, Tangier (IBRA)	
9632	31.15	1	CR6RL	R. Clube de Angola, Angola	
9635	31.14	7.5	ZYR83	R. Aparecida, Brazil	
	31.14	100	CSA23	R. Nacional, Portugal	
	31.14	10/50/100		R. Australia, Australia	
9640	31.12	3	CXA8	R. Real de S. Carlos, Uruguay	
	31.12	100	DMQ9	Deutsche Welle, Germany	
	31.12	10/100		Allouis, France	
	31.12	15/100		BBC, London, Gt. Britain	
	31.12	1.3		Accra, Ghana	
	31 12	50/100	HLK5	Seoul, Korea	
	31.12	15		Alma Ata, USSR	
	31.12	1	DZH2	Manila, Philippines	
	31.12	5	COX4	Ministerio de Educ., Cuba	
	31.12	10	YVSC	R. Nacional, Venezuela	
9645	31.10	1	TIFC	Faro del Caribe, Costa Rica	
	31.10	10/100	LLH	R. Norway, Norway	
	31.10	7.5	ZYV40	R. Cultura de Pocos, Brazil	
	31.10	10/50		Karachi, Pakistan	
	31.10	0.3	HOJ53	R. Provincias, Panama	
9646	31.10	5/25/50/100		Vatican City, Vatican State	
9650	31.09	10/50/100		R. Australia, Australia	
	31.09	50	WDSI	Brentwood, USA	
	31.09	50	WBOU	Bound Brook, USA	
	31.09	7.5/20		BBC, Cyprus, Cyprus	
	31.09	100		Honolulu (VOA), Hawaii	
	31.09		VUD	AIR, Delhi, India	
	31.09	120/240		Peking, China	
9655	31.07	10/100		R. Free Europe, Germany	
	31.07	50	OTC	Leopoldville, Belg. Congo	
	31.07	5	JKH2	Tokio, Japan	
9656	31.06	7.5	CR7CC	R. Clube de Mozambique	
9657	31.06	4		R. Yaounde, Cameroon	
9660	31.06	7.5	LRX	R. El Mundo, Argentina	
	31.06	10	VLQ9	Brisbane, Australia	
	31.06	15/100		BBC, London, Gt. Britain	
	31.06	5/25/50/100		Vatican City, Vatican State	
	31.06	0.5/50	BED33	Taipei, Taiwan	
	31.06	50		Komsomolsk, USSR	
9665	31.04	0.3	OEI23	Wien, Austria	
	31.04	100	HEU3	Schwarzenburg, Switzerland	
	31.04	120/240		Peking, China	
	31.04	4	OEI23	Kronstorf, Austria	
	31.04	20/50		R. Liberty, Germany	
	31.04	40		Kiev, USSR	
	31.04	100		R. Prague, Czechoslovakia	
	31.04	20		R. Rio, Brazil	
9667	31.04	1		R. Somali, Somaliland (Br.)	
9668	31.03	5	TGNB	R. Cultural, Guatemala	
9670	31.02	1	COCQ	Circuito CMQ, Cuba	
	31.02	100		R. Prague, Czechoslovakia	
	31.02	35/100		Okinawa (VOA), Ryukyu Isl.	
	31.02	10/100		R. Free Europe, Germany	
	31.02	0.5	YVOZ	R. Nadaos, Venezuela	
	31.02		VUD	AIR, Delhi, India	
	31.02	15/120		Peking, China	
	31.02	8/100		München (VOA), Germany	
	31.02	4	OEI4C	Kronstorf, Austria	
	31.02			Bhopal, India	
9675	31.01	7.5	ZYT29	R. Diario da Manha, Brazil	
	31.01	10/100		Allouis, France	
	31.01		VUD	AIR, Delhi, India	
	31.01	20/100	JOA/B9	R. Japan	
	31.01	15/100		BBC, Gt. Britain	
9677	31.00	100		R. Nacional, Spain	
9680	30.99	10/50/100		R. Australia, Australia	
	30.99	20/100	EQC	R. Iran, Iran	

kc/s	m	kW	Call	Stations and countries	Rem.
9680	30.99	5/10	VLR/H9	Melbourne, Australia	
	30.99	10/100		Allouis, France	
	30.99	1	XEQQ	R. Mexicana del Centro, Mex.	
	30.99	20		Paradys, So. Africa	
	30.99	20/50		R. Liberty, Germany	
9685	30.98	1	HOF31	Onda Popular, Panama	
	30.98	7.5	ZYR227	R. Gazeta, Brazil	
	30.98	50		Algier 2, Algeria	
	30.98	0.5/50	BED36	Taipei, Taiwan	
	30.98	10	TGWA	R. Nacional, Guatemala	
9690	30.96	100	LRA32	R. Nacional, Argentina	
	30.96	15/100		BBC, Gt. Britain	
	30.96	7.5/100		BBC, Singapore, Malaya	
	30.96	0.25	DZH5	Manila, Philipp.	
	30.96	120/240		Peking, China	
	30.96	4		R. Gabon, Gabon	
	30.96	10/50		Karachi, Pakistan	
9695	30.94	10/100		R. Free Europe, Germany	
	30.94	20/100	JOA/B9	R. Japan	
	30.94	100		R. Nacional, Spain	
	30.94	7.5		R. Baré, Brazil	
9700	30.93	120		R. Sofia, Bulgaria	
	30.93	15/100		*BBC, London, Gt. Britain*	
	30.93	50/200	KCBR	Delano, USA	
	30.93	10	CE970	R. Vitalicia, Chile	
9705	30.91	10/50		Karachi, Pakistan	
	30.91	20/50		R. Liberty, Germany	
	30.91	100	ORU3	Bruxelles, Belgium	
	30.91	10	ZYS24	R. Maua, Brazil	
	30.91		VUD	AIR, Delhi, India	
	30.91	10/100		R. Free Europe, Germany	
9710	30.90	50	YDF6	Djakarta, Indonesia	
	30.90	50/60/100		R. Roma, Italy	
	30.90	4		R. Niger, Niger	
9715	30.88	10/100		R. Free Europe, Germany	
	30.88	50/100		R. Nederland, Holland	
	30.88	15/120		Peking, China	
	30.88	0.5	CP21	R. La Plata, Bolivia	
9717	30.87	10/100		R. Free Europe, Germany	
9720	30.86	50	PRL7	R. Nacional, R. de Jan., Br	
	30.86	20		Paradys, So. Africa	
	30.86			AIR, Hyderabad, India	
9725	30.85	15/100		BBC, London, Gt. Britain	
	30.85	7.5/100		BBC, Singapore, Malaya	
	30.85	10/100		R. Free Europe, Germany	
	30.85	50		*Komsomolsk*, USSR	
9727	30.84	100	CSA26	R. Nacional, Portugal	
9730	30.83	12		Leipzig (DDR), Germany	
	30.83	7.5	ZYU59	R. Soc. Farroupilha, Brazil	
	30.83	2	DZH7	Call of the Orient, Philipp.	
	30.83	20/50		R. Liberty, Germany	
	30.83			R. Brazzaville, Congo	
	30.83		VUD	AIR, Delhi, India	
	30.83	50/100		R. Nederland, Holland	
9735	30.82	15/100		BBC, London, Gt. Britain	
	30.82	7.5	ZYW23	R. Brazil Central, Brazil	
	30.82	15/120		Peking, China	
	30.82	7.5	HI2T	La Voz Dominicana, Dom. R.	
	30.82	100	DMQ9	Deutsche Welle, Germany	
	30.82	3	ZPA6	R. Guairá, Paraguay	
9740	30.80	10/50		Karachi, Pakistan	
	30.80	15/100		BBC, London, Gt. Britain	
	30.80	1	CORG	R. Reloj del Aire, Cuba	
	30.80	100	CSA27	R. Nacional, Portugal	
	30.80	35/50/100		Tangier (VOA), Morocco	
	30.80		VUD	AIR, Delhi, India	
9742	30.79	20	LRS1	R. Splendid, Argentina	
9745	30.78	100/20	ORU3/5	Bruxelles, Belgium	
	30.78	50/100		R. Nederland, Holland	
	30.78	1/40	HCJB	Voz de los Andes, Ecuador	
	30.78	7.5	ZYR57	R. Cultura, Brazil	
	30.78	4		Bamako, Fr. Sudan	
	30.78	35/100		Okinawa (VOA), Ryukyu Isl.	
	30.78		VUD	AIR, Delhi, India	
9746	30.78	100	CSA28	R. Nacional, Portugal	
9750	30.77	10/100		R. Free Europe, Germany	
	30.77	15/100		*BBC, London, Gt. Britain*	
	30.77	20		Khabarovsk, USSR	
	30.77	1	DZH3	Manila, Philipp.	
	30.77		VUD	AIR, Delhi, India	
	30.77	50	WBOU	Bound Brook, USA	
9754	30.76	25		R. National, Vietnam (Rep	
9755	30.76	10/100		Allouis, France	
	30.75	15/100		BBC, London, Gt. Britain	
	30.76	1	CR6RH	Sa da Bandeira, Angola	
	30.76	120/240		Peking, China	
	30.76	10/50		Karachi, Pakistan	
9755	30.76			Rawalpindi, Pakistan	
	30.76			Voice of Revival, Taiwan	
	30.76	35/50/100		Tangier (VOA) Morocco	
9760	30.74	15/100		BBC, London, Gt. Britain	
	30.74	10	LRY	R. Belgrano, Argentina	
9765	30.72	20/50		R. Liberty, Germany	
	30.72	10/100		Allouis, France	
	30.72	15/100		BBC, London, Gt. Britain	
	30.72	1	CR6RZ	R. Angola, Angola	
9767	30.71	10		Voice of Tangier, Morocco	
9770	30.71	15/100		BBC, London, Gt. Britain	
	30.71	0.4	4VWI	La Voix Evangelique, Haiti	
	30.70	10	PRL4	R. Dif. Educativa, Brazil	
	30.70	7		R. Brazzaville, Congo	
	30.70	50		Manila (VOA), Philipp.	
9775	30.69	3.5	BEC34	Taipei, Taiwan	
	30.69	120/240		Peking, China	
	30.69	7.5/100		Warsaw, Poland	
				9775 – 11700 kc/s	
9785	30.66	120/240		Peking, China	
9790	30.64	40		Leningrad, USSR	
	30.64			Lvov, USSR	
9795	30.63	50/100		Cairo, Un. Arab. Rep.	
9800	30.61	120/240		Peking, China	
9805	30.60	50/100		Cairo, Un. Arab. Rep.	
9810	30.58	7.5/20		Damascus, Syria	
9825	30.53	15/100		BBC, London, Gt. Britain	
9833	30.51	100		Budapest, Hungary	
	30.51	1	COBL	R. Aeropuerto, Cuba	
9840	30.49	2		Baku, USSR	
	30.49			Hanoi, Vietnam (DR)	
9850	30.46			AIR, Delhi, India	
9865	30.40	50	YDF8	Djakarta, Indonesia	
9915	30.26	15/100		BBC, London, Gt. Britain	
9940	30.18			Hanoi, N. Vietnam (DR)	
*10000	30.00	2	WWVH	Puunene, Hawaii	
*	30.00	0.5	MSF	Teddington, Gt. Britain	
*	30.00	10	WWV	Lanham, USA	
*	30.00	2	JJY	Tokyo, Japan	
*	30.00	2	LOL	Buenos Aires, Argentina	
10005	29.98			Yunnan, China	
10220	29.35	20	PSH	Agencia Nacional, Brazil	
10245	29.28			Sinkiang, China	
10260	29.24	15/120		Peking, China	
**10332	29.04		GPB30	Rugby, Gt. Britain	
10375	28.90	5		R. Ulan Bator, Mongolia	
10430	28.75	10/100		Allouis, France	
10530	28.50	15		Alma Ata, USSR	
11000	27.27			Szechuan, China	
11040	27.17			Inner Mongolia, China	
11100	27.03	15/120		Peking, China	
11290	26.57	15/120		Peking, China	
11515	26.05	15/120		Peking, China	
11600	25.86	15/120		Peking, China	
11630	25.79	40		Leningrad, USSR	
11650	25.75	120/240		Peking, China	
11670	25.71	50/100		Cairo, Un. Arab. Rep.	
	25.71	50		R. Congo Belge, Belg. Congo	
11674	25.70	10/50		Karachi, Pakistan	
11675	25.70	15/120		Peking, China	
11680	25.68	15/100		BBC, London, Gt. Britain	
11685	25.67	5/25/50/100		Vatican City, Vatican State	
11690	25.66	15		Tashkent, USSR	
	25.66			Khabarovsk, USSR	
				11700–11975 kc/s – 625 metre band	
11700	25.64	10/100		Allouis, France	
	25.64	15/100		BBC, London, Gt. Britain	
	25.64	0.5	TGQB	R. Nacional, Guatemala	
	25.64	40		Kiev, USSR	
11705	25.63	20/100	JOA/B11	R. Japan	
	25.63	100		Hörby, Sweden	
11710	25.62	10/50/100		R. Australia, Australia	
	25.62	50	WBOU	Bound Brook, USA	
	25.62		VUD	AIR, Delhi, India	
11715	25.61	8/100		*München, VOA, Germany*	
	25.61	50/200	KCBR	Delano, USA	
11718	25.60	5/7.5		R. Athens, Greece	
11720	25.60	50	OTH3	R. Congo Belge, Belg. Congo	
	25.60	50	OQ2AA	R. Leo, Belgian Congo	
	25.60	50	CHOL	R. Canada, Canada	
	25.60	10		R. Nac. Rio de Jan., Brazil	
	25.60	20/50		R. Liberty, Germany	
	25.60	10		R. Nac. Brasília, Brazil	
	25.60	7.5/20		BBC, Cyprus, Cyprus	
	25.60	20	ORU5	Bruxelles, Belgium	

kc/s	m	kW	Call	Stations and countries	Rem.
11725	25.59	100		Praha, Czechoslovakia	
	25.58	10/100		R. Free Europe, Germany	
	25.58	20/100	JOA/B11	R. Japan, Japan	
	25.58	15/100		BBC, London, Gt. Britain	
	25.58	7.5/100		BBC, Singapore, Malaya	
	25.58	1	YSY	R. Victoria, El Salvador	
	25.58	10		Dacca, Pakistan	
	25.58	50		R. Brazzaville, Congo	
11730	25.58	15/100		BBC, London, Gt. Britain	
	25.58	50/100		R. Nederland, Holland	
	25.58	50		Petropavlovsk, USSR	
	25.58	100		Praha, Czechoslovakia	
	25.58		VUD	AIR, Delhi, India	
	25.58	0.5/50	BED35	Taipei, Taiwan	
	25.58	20/100		R. Iran, Iran	
11735	25.56	10/100	LKO	R. Norway, Norway	
	25.56	10/100		R. Belgrade, Yugoslavia	
	25.56	5	CXA7	R. Oriental, Uruguay	
	25.56	10/100		R. Free Europe, Germany	
	25.56	7.5	ZYG3	R. Clube de Goiania, Brazil	
11740	25.55	10/50/100		R. Australia, Australia	
	25.55	5/25/50/100		Vatican City, Vatican State	
	25.55	7.5/100		Warsaw, Poland	
	25.55	50	WBOU	Bound Brook, USA	
	25.55	40		Kiev, USSR	
	25.55	1	COCY	R. Rebelde, Cuba	
	25.55		VUD	AIR, Delhi, India	
11745	25.54	10/100		R. Free Europe, Germany	
	25.54	7.5	ZYR65	R. Emis. Piratininga, Brazil	
	25.54	10		ELWA, Liberia	
	25.54	100		Praha, Czechoslovakia	
11750	25.53	15/100		BBC, London, Gt. Britain	
	25.53	10		Tokyo (FEN), Japan	
	25.53	0.5	TGCX	R. Cristal, Guatemala	
	25.53	120/240		Peking, China	
11752	25.53	7.5/20		Damascus, Syria	
11755	25.52	10/100		R. Free Europe, Germany	
	25.52	5	CE1174	R. Nuevo Mundo, Chile	
	25.52	50		Komsomolsk, USSR	
	25.52	50		Petropavlovsk, USSR	
	25.52		VUD	AIR, Delhi, India	
	25.52	20/50		R. Liberty, Germany	
11760	25.51	10/50/100		R. Australia, Australia	
	25.51	50	CKRA	R. Canada, Canada	
	25.51	35		Courier (VOA), Greece	
	25.51	35/50/100		Tangier (VOA), Morocco	
	25.51	7.5		R. Clube de Mozambique	
	25.51	8/100		Munich (VOA), Germany	
11765	25.50	20/50		R. Liberty, Germany	
	25.50	7.5/50		Manila (VOA), Philipp.	
	25.50	25	ZYB8	R. Dif. de Sao Paulo, Brazil	
	25.50	35/100		Tangier (VOA), Morocco	
	25.50		VUD	AIR, Delhi, India	
	25.50			Nauen, Germ. (DDR)	
11767	25.49	10		Voice of Tangier, Morocco	
11770	25.49	10/50/100		R. Australia, Australia	
	25.49	15/100		BBC, London, Gt. Britain	
	25.49	7.5	YDE	Djakarta, Indonesia	
	25.49	100	YDF2	Djakarta, Indonesia	
	25.49		VUD	AIR, Delhi, India	
	25.49	35		Colombo, Ceylon	
11775	25.48	0.2	OEI35	Wien, Austria	
	25.48	10	ZYZ28	R. Mayrink Veiga, Brazil	
	25.48	10/100		R. Free Europe, Germany	
	25.48	100		Honolulu, VOA, Hawaii	
11780	25.47	20/100	JOA/B11	R. Japan	
	25.47	7.5	ZL3	Wellington, New Zealand	
	25.47	20/50		R. Liberty, Germany	
	25.47	20/50	WRUL	R. Boston, USA	
	25.47	15/100		BBC, London, Gt. Britain	
	25.47	7.5/100		BBC, Singapore, Malaya	
	25.47		VUD	AIR, Delhi, India	
	25.47	0.5	XENN	Mexico, Mexico	
11785	25.46	40		Kiev, USSR	
	25.46	0.2	OEI24	Wien, Austria	
	25.46	35/50/100		Tangier (VOA), Morocco	
	25.46	7.5	ZYU61	R. Guaiba, Brazil	
	25.46	100	YDF2	Djakarta, Indonesia	
11790	25.45	7.5/50		Manila (VOA), Philipp.	
	25.45	15/100		BBC, London, Gt. Britain	
	25.45	110	WLWO	Bethany, USA	
11795	25.43	100	DMQ11	Deutsche Welle, Germany	
	25.43	100	OLR4G	Praha, Czechoslovakia	
	25.43	50	OTM5	R. Congo Belge, Belg. Congo	
	25.43	100	YDF3	Djakarta, Indonesia	
11800	25.42	50/60/100		R. Roma, Italy	
	25.42	15/100		BBC, London, Gt. Britain	

kc/s	m	kW	Call	Stations and countries	Rem.
11800	25.42	20/100	JOA/B11	R. Japan	
	25.42	120/240		Peking, China	
	25.42	1	COBH	R. Onda Musical, Cuba	
	25.42		VUD	AIR, Delhi, India	
11804	25.42	0.5/50	BED43	Taipei, Taiwan	
11805	25.41	35		Salonika (VOA), Greece	
	25.41	10		R. Globo, Brazil	
	25.41	10/100		R. Free Europe, Germany	
	25.41		VUD	AIR, Delhi, India	
11810	25.40	10/50/100		R. Australia, Australia	
	25.40	50/60/100		R. Roma, Italy	
	25.40	100		Hörby, Sweden	
	25.40			Bucuresti, Rumania	
	25.40	7.5	ZL9	Wellington, New Zealand	
11815	25.39	10/100		R. Free Europe, Germany	
	25.39	0.5/50	BED6	Taipei (BCC), Taiwan	
	25.39	100		R. Nacional, Spain	
	25.39	7.5	ZYW24	R. Brazil Central, Brazil	
	25.39	7.5/100		Warsaw, Poland	
11820	25.38	15/100		BBC, London, Gt. Britain	
	25.38	120/240		Peking, China	
	25.38	7.5/100		BBC, Singapore, Malaya	
	25.38	0.5	XEBR	El Heraldo de Sonora, Mex.	
	25.38	40		Kiev, USSR	
	25.38			Magadan, USSR	
11822	25.38	10		Lusaka, Rhodesia	
11825	25.37	20/50		R. Liberty, Germany	
	25.37	64	ZYK32	R. Jorn. do Commercio, Brazil	
	25.37	15		R. Africa, Tangier (IBRA)	
11830	25.36	50	WDSI	Brentwood, USA	
	25.36	10/100		R. Free Europe, Germany	
	25.36	7.5	ZL19	Wellington, New Zealand	
	25.36	10		Dacca, Pakistan	
	25.36		VUD	AIR, Delhi, India	
11835	25.35	5	CXA19	El Espectador, Uruguay	
	25.35	35		Colombo, Ceylon	
	25.35	50		Algier I, Algeria	
11840	25.34	100	CSA31	R. Nacional, Portugal	
	25.34	10/50/100		R. Australia, Australia	
	25.34	15/100		BBC, London, Gt. Britain	
	25.34	0.25	DUH5	Manila, Philipp.	
	25.34	20		Paradys, So. Africa	
	25.34	20		Khabarovsk, USSR	
	25.34	0.5/50	BED64	Taipei (BCC), Taiwan	
	25.34			Hanoi, Vietnam (Rep.)	
	25.34	100		R. Prague, Czechoslovakia	
11845	25.33	10/100		Allouis, France	
	25.33	10/50		Karachi, Pakistan	
11850	25.32	10/50/100		R. Australia, Australia	
	25.32	100	ORU4	Bruxelles, Belgium	
	25.32	10/100	LLK	R. Norway, Norway	
	25.32	5	TGNC	R. Cultural, Guatemala	
	25.32	1.5	ZPA3	R. Teleco, Paraguay	
	25.32	50		Komsomolsk, USSR	
	25.32	25	CE1185	R. Cruz del Sur, Chile	
	25.32	50		Petropavlovsk, USSR	
	25.32	120		R. Sofia, Bulgaria	
11855	25.31	10/100		R. Free Europe, Germany	
	25.31	2	DZH8	Call of the Orient, Philipp.	
	25.31	20		Khartoum, Sudan	
11860	25.30	15/100		BBC, London, Gt. Britain	
	25.30	1	XEMZ	R. Independiente, Mexico	
	25.30	15/120/240		Peking, China	
	25.30	40		Kiev, USSR	
	25.30		VUD	AIR, Delhi, India	
11865	25.28	100	HER5	Schwarzenburg, Switzerland	
	25.28	7.5	PRA8	R. Cl. de Pernambuco, Brazil	
11870	25.27	50	WBOU	Bound Brook, USA	
	25.27	10/50/100		R. Australia, Australia	
	25.27	50/200	KNBH	Dixon, USA	
	25.27	35/100		Tangier (VOA), Morocco	
11875	25.26	35/100		Tangier (VOA), Morocco	
	25.26	10	ZYN32	R. Soc. da Bahia, Brazil	
	25.26	35		Colombo, Ceylon	
11880	25.25	1	LRS	R. Splendid, Argentina	
	25.25	5	VLH11	Melbourne, Australia	
	25.25	10/50/100		R. Australia, Australia	
	25.25	15/100		BBC, London, Gt. Britain	
	25.25	7.5/100		BBC, Singapore, Malaya	
	25.25	1	XEHH	R. Dif. XERH/XEHH, Mex.	
	25.25	100		Hörby, Sweden	
11882	25.25	2.5		Lusaka, Rhodesia	
11885	25.24	10/100		R. Free Europe, Germany	
	25.24	10		R. Maua, Brazil	
	25.24	40		Leningrad, USSR	
	25.24	25	CXA68	R. Sarandi, Uruguay	
	25.24	10/50		Karachi, Pakistan	

kc/s	m	kW	Call	Stations and countries	Rem.
11885	25.24	120/240		Peking, China	
11890	25.23	15/100		BBC, London, Gt. Britain	
	25.23	40		Kiev, USSR	
	25.23	35/100		Tangier (VOA), Morocco	
	25.23	35/100		N. Luzon (VOA), Philipp.	
	25.23	10		Dacca, Pakistan	
11895	25.22	25		R. Mali, Dakar, Fr.W.Afr.	
	25.22	10/100		R. Free Europe, Germany	
	25.22	35/100		N. Luzon (VOA), Philipp.	
	25.22	35/50/100		Tangier (VOA), Morocco	
11900	25.21	10/50/100		R. Australia, Australia	
	25.21	35/50/100		Tangier (VOA), Morocco	
	25.21	50/200	KNBH	Dixon, USA	
	25.21	110	WLWO	Bethany, USA	
	25.21	20		Paradys, So. Africa	
	25.21	20	CXA10	S.O.D.R.E., Uruguay	
	25.21	50		Komsomolsk, USSR	
	25.21	50		Petropavlovsk, USSR	
	25.21	0.25	OQ2AB	R. Elisabeth, Belg. Congo	
	25.21	1	XEXE	R. Dif. Mexico, Mexico	
11905	25.20	50/60/100		R. Roma, Italy	
	25.20	7.5/100		Warsaw, Poland	
	25.20		VUD	AIR, Delhi, India	
11910	25.19	15/100		BBC, London, Gt. Britain	
	25.19	100		Budapest, Hungary	
	25.19	0.5	HSK7	R. Thailand, Thailand	
	25.19	120/240		Peking, China	
11914	25.18	10/50		Karachi, Pakistan	
11915	25.18	50/100		R. Nederland, Holland	
	25.18	30	HCJB	La Voz de los Andes, Ecuad.	
	25.18	10/100		R. Free Europe, Germany	
	25.18			R. Soc. Gaucha, Brazil	
11920	25.17	10/100		Allouis, France	
	25.17	7.5/100		BBC, Singapore, Malaya	
	25.17	50	DXF2	Call of the Orient, Philipp.	
	25.17		VUD	AIR, Delhi, India	
11925	25.16	10	ZYR77	R. Bandeirantes, Brazil	
	25.16	20/50		R. Liberty, Germany	
	25.16	50	HLK6	Seoul, Korea	
	25.16	15/20		Peking, China	
	25.16		VUD	AIR, Delhi, India	
11927	25.16	5/7.5		R. Athens, Greece	
11930	25.15	15/100		BBC, London, Gt. Britain	
	25.15	7.5/100		BBC, Singapore, Malaya	
	25.15	50		R. Brazzaville, Fr. Equat. Af.	
11935	25.14	0.2	OEI36	Wien, Austria	
	25.14	7.5	ZYS35	R. Cl. Paranaense, Brazil	
	25.14	15/120		Peking, China	
	25.14	20/50		R. Liberty, Germany	
	25.14	50/100		R. Nederland, Holland	
11937	25.14	20		Paradys, So. Africa	
	25.13	100		Bucuresti, Rumania	
11940	25.13	10/100		R. Free Europe, Germany	
	25.13	5	CE1190	R. Coop. Vitalicia, Chile	
	25.13		VUD	AIR, Delhi, India	
	25.13	20/100	JOA/B11	R. Japan	
11945	25.12	15/100		BBC, London, Gt. Britain	
	25.12	100	DMQ11	Deutsche Welle, Germany	
	25.12	120/240		Peking, China	
	25.12	50	CKNK	R. Canada, Canada	
	25.12		VUD	AIR, Delhi, India	
11950	25.10	50/100		R. Nederland, Holland	
	25.10	10		Djeddah, Saudi Arabia	
	25.10	7.5	PRL5	R. Dif. Educativa, Brazil	
	25.10	1	YSAX	La Voz Panamericana, El Salv.	
11955	25.09	15/100		BBC, London, Gt. Britain	
	25.09	7.5/100		BBC, Singapore, Malaya	
11960	25.08	15/100		BBC, London, Gt. Britain	
	25.08	5	CE1196	Soc. Nac. de Mineria, Chile	
	25.08	35/100		Okinawa (VOA), Ryukyu Isl.	
	25.08	8/100		München (VOA), Germany	
11965	25.07	10	CXA55	S.O.D.R.E., Uruguay	
	25.07	50	PRB24	R. Record, Brazil	
	25.07	120/240		Peking, China	
	25.07	20/100	JOA/B11	R. Japan	
	25.07	20/50		R. Liberty, Germany	
	25.07	15/100		BBC, London, Gt. Britain	
11970	25.06	50		Brazzaville, Congo	
	25.06	110	WLWO	Bethany, USA	
	25.06	0.5/50	BED37	Taipei, Taiwan	
11975	25.05	120/240		Peking, China	
	25.05	100	OLR4K	Praha, Czechoslovakia	
11985	25.03	50/100		Cairo, Un. Arab. Rep.	
	25.03	1	CR6RD	Nova Lisboa, Angola	
				11995– 15100 kc/s	
11990	25.02	50/100		Cairo, Un. Arab. Rep.	
11995	25.01	100	CSA32	R. Nacional, Portugal	
	25.01	50/100		R. Cairo, Un. Arab. Rep.	
12000	25.00			Hanoi, N. Vietnam (DR)	
	25.00	5	CE1180	R. Soc. Nac. de Agric., Chile	
	25.00	7.5/20		Damascus, Syria	
12010	24.98	120/240		Peking, China	
12020	24.96		VUD	AIR, Delhi, India	
12030	24.94	50/100		Cairo, Un. Arab. Rep.	
12040	24.92	15/100		BBC, London, Gt. Britain	
12095	24.80	15/100		BBC, London, Gt. Britain	
12175	24.64	7	TFJ	Reykjavik, Iceland	
**14670	20.45	0.3	CHU3	Dom. Observatory, Canada	
14690	20.45	20	PSF	Agencia Nac., Brazil	
*15000	20.00	2	WWVH	Puunene, Hawaii	
*	20.00	10	WWV	Washington, USA	
*	20.00	2	JJY	Tokyo, Japan	
*	20.00	2	LOL	Buenos Aires, Argentina	
15020	19.98			Hanoi, N. Vietnam (DR)	
15050	19.93	50		Petropavlovsk, USSR	
15060	19.92	120/240		Peking, China	
15070	19.91	15/100		BBC, London, Gt. Britain	
15085	19.89	0.25		Grenada, Windward Isl.	
15095	19.87	120/240		Peking, China	
15097	19.87	5	CR7BG	R. Cl. de Mozambique, Moz.	
15100	19.87	10/100		Allouis, France	
	19.87	100	CSA39	R. Nacional, Portugal	
				15100 – 15450 kc/s (19 m.b.)	
15105	19.86	50	CKUS	R. Canada, Canada	
	19.86		VUD	Delhi, India	
	19.86	20/50		R. Liberty, Germany	
	19.86	7.5	ZYZ32	R. Rural Brasileira, Brazil	
15110	19.85	15/100		BBC, London, Gt. Britain	
	19.85	50		Petropavlovsk, USSR	
15115	19.85	1/40	HCJB	Voz de los Andes, Ecuador	
	19.85	7.5		R. Soc. Gaucha, Brazil	
	19.85	10/100		R. Free Europe, Germany	
	19.85	120/240		Peking, China	
15120	19.84	50/60/100		R. Roma, Italy	
	19.84	5/25/50/100		Vatican City, Vatican State	
	19.84	35		Colombo, Ceylon	
	19.84	1		ELWA, Liberia	
	19.84	7.5/100		Warsaw, Poland	
	19.84	10/50/100		R. Australia, Australia	
	19.84		VUD	AIR Delhi, India	
15125	19.83	100	CSA64	R. Nacional, Portugal	
	19.83	10	ZYN31	R. Soc. da Bahia, Brazil	
	19.83		VUD	AIR, Delhi, India	
	19.83	100	OLR5D	Praha, Czechoslovakia	
	19.83	100	EPB	R. Teheran Iran	
	19.83	35/100		N. Luzon (VOA), Philipp.	
15130	19.83		VUD	AIR, Delhi, India	
	19.83	50	WBOU	Bound Brook, USA	
	19.83	10/100		Allouis, France	
	19.83	35/50/100		Tangier (VOA), Morocco	
15135	19.82	20/100	JOA/B15	R. Japan	
	19.82	7.5	PRB23	R. Record, Brazil	
	19.82	10/100		R. Free Europe, Germany	
	19.82		VUD	AIR, Delhi, India	
15140	19.82	15/100		BBC, London, Gt. Britain	
	19.82	50		Petropavlovsk, USSR	
	19.82	120/240		Peking, China	
	19.82		VUD	AIR, Delhi, India	
15145	19.81	10/100		R. Free Europe, Germany	
	19.81	64	ZYK33	R. Jornal do Commercio, Br.	
	19.81	10/50		Karachi, Pakistan	
15150	19.80	5	CE1515	R. Corporacion, Chile	
	19.80	10		R. Atlantico, Portugal	
	19.80	50/200	KNBH	Dixon, USA	
	19.80	100	YDC	Djakarta, Indonesia	
	19.80	100		Honolulu, (VOA,) Hawaii	
	19.80	50	OAX4T	R. Nacional Lima, Peru	
15152	19.80	5/10	CR7BG	R. Cl. de Mozambique, Moz.	
15155	19.80	100		Hörby, Sweden	
	19.80	50	WB5I	Wayne, USA	
	19.80		VUD	AIR, Delhi, India	
	19.80	25	ZYB9	R. Dif. de Sao Paulo, Brazil	
	19.80	10/50		Karachi, Pakistan	
15160	19.79	10/50/100		R. Australia, Australia	
	19.79		VUD	AIR, Delhi, India	
	19.79	100	TAU	R. Ankara, Turkey	
	19.79	10	XEWW	La Voz de la America, Mex.	
	19.79	100		Budapest, Hungary	
	19.79	10/100		Allouis, France	
15165	19.78	50	OZF7	Herstedvester, Denmark	
	19.78	7.5/20		Damascus, Un. Arab. Rep.	
	19.78	5	ZYN7	Ceará R. Clube, Brazil	

kc/s	m	kW	Call	Stations and countries	Rem.
15165	19.78	110	WLWO	Bethany, USA	
15170	19.78	10/100	LKV	R. Norway, Norway	
	19.78		VUD	AIR, Delhi, India	
	19.78	10/100		R. Free Europe, Germany	
	19.78	1	OBX4C	R. El Sol, Peru	
15175	19.77	10/100	LLM	R. Norway, Norway	
	19.77	10/50/100		R. Australia, Australia	
	19.77	15/120		Peking, China	
	19.77	7.5		Emis. Riograndense, Brazil	
15180	19.76	15/100		BBC, London, Gt. Britain	
15185	19.76	10/100		R. Free Europe, Germany	
	19.76	100	OLR5F	Praha, Czechoslovakia	
	19.76	35/100		N. Luzon (VOA), Philipp.	
	19.76	50		Rabat Morocco	
	19.76		VUD	AIR Delhi, India	
15190	19.75	50	CKCX	R. Canada, Canada	
	19.75	5	PRK9	R. Inconfidencia, Brazil	
	19.75	100	OIX4	Pori, Finland	
	19.75	120/240		Peking, China	
	19.75		VUD	AIR Delhi, India	
15195	19.74		VUD	AIR Delhi, India	
	19.74	20	TAQ	R. Ankara, Turkey	
	19.74	10/100		R. Free Europe, Germany	
	19.74	50		Petropavlovsk, USSR	
	19.74	50		Komsomolsk, USSR	
15200	19.73	20		Paradys, So. Africa	
	19.74	50	WBS1	Wayne, USA	
	19.74	35/100		N. Luzon (VOA), Philipp.	
	19.74	10/50/100		R. Australia, Australia	
15205	19.73	5	XESC	Heraldo de Junco, Mexico	
	19.73	10/50		Karachi, Pakistan	
	19.73	50	WBSI.	Wayne, USA	
	19.73	8/100		Munich (VOA), Germany	
	19.73	35/50/100		Tangier VOA, Morocco	
15210	19.72	10/50/100		R. Australia, Australia	
	19.72	15/100		BBC, London, Gt. Britain	
	19.72	7.5/50		Manila (VOA), Philippines	
	19.72	1	ZPA7	R. Guarani, Paraguay	
	19.72	8/100		München (VOA), Germany	
15215	19.71	10/100		R. Free Europe, Germany	
	19.71	2.5		R. Timbira, Brazil	
	19.72	50		Komsomolsk, USSR	
	19.72	35/100		Okinawa (VOA), Ryukyu Isl.	
15220	19.71	10/50/100		R. Australia, Australia	
	19.71	50/100		R. Nederland, Holland	
	19.71	7.5	ZL10	Wellington, New Zealand	
15225	19.70	25	CXA64	La Voz de Melo, Uruguay	
	19.70	20/100	JOA/B15	R. Japan	
	19.70	1		R. Cultura da Bahia, Brazil	
	19.70	7.5		R. Cl. de Goiania, Brazil	
	19.70	0.5/50	BED5	Taipei (BCC), Taiwan	
	19.70	20/50		R. Liberty, Germany	
	19.70		VUD	AIR Delhi, India	
15230	19.70	5/10	VLH15	Melbourne, Australia	
	19.70	15/100		BBC, London, Gt. Britain	
	19.70	10/50/100		R. Australia, Australia	
	19.70	50	WBOU	Bound Brook, USA	
	19.70	20/50/	WRUL	R. Boston, USA	
	19.70			Khabarovsk, USSR	
	19.70	35/50/100		Tangier (VOA), Morocco	
15235	19.69		VUD	AIR, Delhi, India	
	19.69	20/100	JOA/B15	R. Japan	
	19.69	50		Komsomolsk, USSR	
	19.69	120/240		Peking, China	
	19.69	35/50/100		Tangier, (VOA) Morocco	
15240	19.69		VUD	AIR, Delhi, India	
	19.69	10		R. Belgrade, Yugoslavia	
	19.69	10/100		Allouis, France	
	19.69	100		Hörby, Sweden	
	19.69	10/50/100		R. Australia, Australia	
	19.69	0.8/50	4VRW	R. Haiti, Haiti	
15245	19.68			Petropavlovsk, USSR	
	19.68	1/10		R. Marajoara, Brazil	
	19.68	7.5/50		Manila (VOA), Philippines	
15250	19.67	110	WLWO	Bethany, USA	
	19.67	50/200	KNBH	Dixon, USA	
	19.67	100		Bucuresti, Rumania	
	19.67	7.5/50		Manila (VOA), Philippines	
	19.67	120/240		Peking, China	
15252	19.67	50		Petropavlovsk, USSR	
15255	19.66	10/100		R. Free Europe, Germany	
	19.67	50	CKSR	R. Canada, Canada	
	19.66	50	HLK7	Seoul, Korea	
	19.67	20/50		R. Liberty, Germany	
15257	19.66	1/10		Tokyo (FEN), Japan	
15260	19.66	15/100		BBC, London, Gt. Britain	
	19.66	120/240		Peking, China	

kc/s	m	kW	Call	Stations and countries	Rem.
15265	19.66	10/100		R. Free Europe, Germany	
	19.65	35		Colombo, Ceylon	
15270	19.65	50	WBOU	Bound Brook, USA	
	19.65	50	WDSI	Brentwood, USA	
	19.65	120/240		Peking, China	
	19.65	35		Courier (VOA), Greece	
	19.65	10		Dacca, Pakistan	
	19.65		VUD	AIR, Delhi, India	
15275	19.64	100	DMQ15	Deutsche Welle, Germany	
	19.64	35/100		N. Luzon (VOA), Philipp.	
	19.64	7.5/100		Warsaw, Poland	
	19.64	10/50		Karachi, Pakistan	
15280	19.63	7.5	ZL4	Wellington, New Zealand	
	19.63	20	ORU5	Bruxelles, Belgium	
	19.63	0.5/50	BED34	Taipei, Taiwan	
15285	19.63	35		Salonika (VOA), Greece	
	19.63	20/50	WRUL	R. Boston, USA	
	19.63	2.5		R. Africa Tangier (IBRA)	
	19.63	100		Praha, Czechoslovakia	
	19.63	50/120	KNBH	Dixon, USA	
15290	19.62	7.5/10		R. El Mundo, Argentina	
	19.62	120/240		Peking, China	
	19.62	110	WLWO	Bethany, USA	
	19.62	35/50/100		Tangier (VOA), Morocco	
15295	19.62	10/100		Allouis, France	
	19.62	10		R. Nac. Rio de Janeiro, Braz.	
	19.62	25/50/100		Tangier (VOA), Morocco	
	19.61	10/100		R. Free Europe, Germany	
15300	19.61	15/100		BBC, London, Gt. Britain	
	19.61	7.5/100		BBC, Singapore, Malaya	
	19.60	2	DZH9	Call of the Orient, Philipp.	
	19.61	0.25	XERUU	Chihuahua, Mexico	
	19.61		VUD	AIR, Delhi, India	
	19.61	20/50		R. Liberty, Germany	
15305	19.60	100	HER6	Schwarzenburg, Switzerland	
	19.60	40		Kiev, USSR	
	19.60	10		Dacca, Pakistan	
15310	19.60	15/100		BBC, London, Gt. Britain	
	19.60	7.5/100		BBC, Singapore, Malaya	
15315	19.59	50/200	KCBR	Delano, USA	
	19.59	50/100		Cairo, Un. Arab. Rep.	
	19.59	100	HEU6	Schwarzenburg, Switzerland	
	19.59	10/50/100		R. Australia, Australia	
15320	19.58	10/50/100		R. Australia, Australia	
	19.58	50	CKCS	R. Canada, Canada	
	19.59			Kaunas, USSR	
	19.58	35/50/100		Tangier (VOA), Morocco	
15325	19.58	1	ZYR228	R. Gazeta, Brazil	
	19.58	50/60/100		R. Roma, Italy	
	19.58	20/100	JOA/B15	R. Japan	
15330	19.57	25/100	WGEO	Schenectady, USA	
	19.57	10/100		Allouis, France	
	19.57	50	WBOU	Bound Brook, USA	
	19.57	110	WLWO	Bethany, USA	
	19.57	50/100		Cairo, Un. Arab. Rep.	
	19.57	35		Salonika (VOA), Greece	
	19.57	8/100		Munich (VOA), Germany	
15335	19.56	10/50		Karachi, Pakistan	
	19.56	100	ORU3/4	Bruxelles, Belgium	
	19.56	50		Komsomolsk, USSR	
	19.56	10		Dacca, Pakistan	
	19.56	35/100		N. Luzon (VOA), Philipp.	
15340	19.56	100	ORU3/4	Bruxelles, Belgium	
15345	19.55	5/7.5		R. Athens, Greece	
	19.55	0.5/50	BED57	Taipei (BBC), Taiwan	
	19.55	100	LRA33	R. Nacional, Argentina	
	19.55	3		R. Addis Ababa, Ethiopia	
	19.55	10		Rabat, Morocco	
15350	19.54	10/100		Allouis, France	
	19.54	5		R. Luxembourg	
15355	19.53	15/100		BBC, London, Gt. Britain	
	19.53	7.5/100		BBC, Singapore, Malaya	
	19.53	0.4	4VWI	La Voix Evangelique, Haiti	
15360	19.53	10/100		R. Free Europe, Germany	
15365	19.52	50/100		R. Nederland, Holland	
	19.52	10/100		Allouis, France	
15370	19.52	10	ZYC9	R. Tupi Rio de Jan., Brazil	
	19.52	20/50		R. Liberty, Germany	
	19.52		VUD	AIR, Delhi, India	
	19.52	0.5/50	BED38	Taipei, Taiwan	
15375	19.51	100	DMQ15	Deutsche Welle, Germany	
	19.51	15/100		BBC, London, Gt. Britain	
15380	19.50	100	CSA42	R. Nacional, Portugal	
	19.51	35/100		Okinawa (VOA), Ryukyu Isl.	
	19.51	35/50/100		Tangier (VOA), Morocco	
	19.51	20/50	WRUL	R. Boston, USA	
	19.51	50/100		Cairo, Un. Arab. Rep.	

kc/s	m	kW	Call	Stations and countries	Rem.
15387	19.50	50	HSK9	R. Thailand, Thailand	
15385	19.50	25	CXA60	R. Sarandi, Uruguay	
	19.50	50	DZF3	Call of the Orient, Philipp.	
	19.50	50/100		R. Cairo, Un. Arab. Rep.	
15390	19.49	15/100		BBC, London, Gt. Britain	
	19.49	50/100		Cairo, Un. Arab. Rep.	
15395	19.49	20/50		R. Liberty, Germany	
15400	19.48	10/100		Allouis, France	
	19.48	50/60/100		R. Roma, Italy	
15405	19.47	100	DMQ15	Deutsche Welle, Germany	
	19.47	20/100		R. Free Europe, Germany	
	19.47	35/100		Tangier (VOA), Morocco	
15410	19.47	50	HLK8	Seoul, Korea	
	19.47	20/50		R. Liberty, Germany	
15415	19.46	15/100		BBC, London, Gt. Britain	
	19.46	1	ZYR206	R. Cl. de Ribeirao Preto, Br.	
	19.46	35/50/100		Tangier (VOA), Morocco	
	19.46	8/100		Munich (VOA), Germany	
15417	19.46	120/240		Peking, China	
15420	19.46	10/100		R. Free Europe, Germany	
	19.46	10/100		Allouis, France	
	19.46	100		R. Nacional, Spain	
	19.46	50		R. Brazzaville, Congo	
	19.46	7.5/100		BBC, Singapore, Malaya	
	19.46	15/100		BBC, London, Gt. Britain	
15422	19.46			Novosibirsk, USSR	
15425	19.45	50/100		R. Nederland, Holland	
	19.45	10	VLX15	Perth, Australia	
	19.45	35/50/100		Tangier (VOA), Morocco	
15430	19.44	120/240		Peking, China	
15435	19.44	15/100		BBC, London, Gt. Britain	
	19.44	7.5/100		BBC, Singapore, Malaya	
15440	19.43	50		R. Brazzaville, Congo	
	19.43	8/100		München (VOA), Germany	
	19.43	50	WBOU	Bound Brook, USA	
15445	19.43	50/100		R. Nederland, Holland	
	19.43	50		R. Rio, Brazil	
	19.43	15/120		Peking, China	
15447	19.42	15/100		BBC, London, Gt. Britain	
				15457–17700 kc/s	
15457	19.41	50		Komsomolsk, USSR	
15460	19.40	1	PZC	Paramaribo, Surinam	
15465	19.39	50/100		R. Cairo, Un. Arab. Rep.	
15475	19.38	50/100		R. Cairo, Un. Arab. Rep.	
15480	19.38	15/120		Peking, China	
	19.38		VUD	Delhi, India	
	19.38	0.5/50	BED35	Taipei, Taiwan	
15520	19.33	120/240		Peking, China	
15550	19.29	15/120		Peking, China	
15610	19.22	15/120		Peking, China	
15630	19.19	0.25	HSK8	R. Thailand, Thailand	
15710	19.10	15/120		Peking, China	
15880	18.89	15/120		Peking, China	
17450	17.20	15/120		Peking, China	
17533	17.11	15/120		Peking, China	
17680	16.97	120/240		Peking, China	
**17685	16.96		GIC37	Teddington, Gt. Britain	
17700	16.95	15/100		BBC, London, Gt. Britain	
				17700–17900 kc/s – 16 metre band	
17705	16.94		VUD	AIR, Delhi, India	
	16.94	7.5	ZYR96	R. 9 de Julho, Brazil	
	16.94	35/50/100		Tangier (VOA), Morocco	
17710	16.94	110	WLWO	Bethany, USA	
	16.94	20/50	WRUL	R. Boston, USA	
	16.94	20/50		R. Liberty, Germany	
17715	16.93	15/100		BBC, London, Gt. Britain	
	16.93	10	CXA57	Montevideo, Uruguay	
	16.93	10/100		Allouis, France	
17720	16.93		VUD	AIR, Delhi, India	
	16.93	20	TAD	R. Ankara, Turkey	
	16.93	120/240		Peking, China	
	16.93	20/50		R. Liberty, Germany	
	16.93	50		R. Brazzaville, Congo	
	16.93	8/100		Munich (VOA), Germany	
17725	16.93	10/100		R. Free Europe, Germany	
	16.93	7.5		R. Universitar, Brazil	
17730	16.92	15/100		BBC, London, Gt. Britain	
	16.92		VUD	AIR, Delhi, India	
	16.92	20/50		R. Liberty, Germany	
	16.92	120/240		Peking, China	
17735	16.92	5/25/50/100		Vatican City, Vatican State	
	16.92	10/100		R. Free Europe, Germany	
	16.92	8/100		München (VOA), Germany	
17740	16.91	15/100		BBC, London, Gt. Britain	
	16.91	50/60/100		R. Roma, Italy	

kc/s	m	kW	Call	Stations and countries	Rem
17740	16.91	110	WLWO	Bethany, USA	
17745	16.91	15/100		BBC, London, Gt. Britain	
	16.91	20/50		R. Liberty, Germany	
	16.91	120/240		Peking, China	
	16.91	50		Komsomolsk, USSR	
	16.91	10/50		Karachi, Pakistan	
	16.91	50	HLK29	Seoul, Korea	
17750	16.90	10/50		Karachi, Pakistan	
	16.90	20/50	WRUL	R. Boston, USA	
	16.90	35/50/100		Tangier (VOA), Morocco	
	16.90	7.5/50		Manila (VOA), Philipp.	
17755	16.90	7.5/100		BBC, Singapore, Malaya	
	16.90	10/100	LKW	R. Norway, Norway	
	16.90	15/100		BBC, London, Gt. Britain	
	16.90	20/100	JOA/B17	R. Japan	
	16.90	20/50	WRUL	R. Boston, USA	
	16.90	0.5/50	BED58	Taipei, Taiwan	
17760	16.89		VUD	AIR, Delhi, India	
	16.89	50/200	KNBH	Dixon, USA	
	16.89	25/100	WGEO	Schenectady, USA	
17765	16.89	35/100		N. Luzon (VOA), Philipp.	
	16.89	20/50		R. Liberty, Germany	
	16.89	120/240		Peking, China	
	16.89		VUD	AIR, Delhi, India	
	16.89	10/100		Allouis, France	
17770	16.88	50/60/100		R. Roma, Italy	
	16.88	50/200	KCBR	Delano, USA	
	16.88	10/100		R. Free Europe, Germany	
17775	16.88	50/100		R. Nederland, Holland	
	16.88	20/100		R. Iran, Iran	
17778	16.87	5/7.5		R. Athens, Greece	
17780	16.87		VUD	AIR, Delhi, India	
	16.87	50	WBOU	Bound Brook, USA	
	16.87	50	WDSI	Brentwood, USA	
	16.87	10/100		Allouis, France	
	16.87	35/100		N. Luzon (VOA), Philipp.	
17784	16.87	100	HER7	Schwarzenburg, Switzerland	
17785	16.87	20/100	JOA/B17	R. Japan	
	16.87		VUD	AIR, Delhi, India	
	16.87	50/200	KCBR	Delano, USA	
	16.87	20/50		R. Liberty, Germany	
	16.87	50	WBOU	Bound Brook, USA	
17790	16.86	10/50/100		R. Australia, Australia	
	16.86	15/100		BBC, London, Gt. Britain	
	16.86	7.5/100		BBC, Singapore, Malaya	
17795	16.86		VUD	AIR, Delhi, India	
	16.86	110	WLWO	Bethany, USA	
	16.86	0.03	OEI37	Wien, Austria	
	16.86	20/100	JOA/B17	R. Japan	
	16.86	10	CR6RZ	R. Angola, Angola	
	16.86	50	KGEI	R. St. KGEI, Belmont, USA	
	16.86	35/100		Okinawa (VOA), Ryukyu Isl.	
17800	16.85	10/50/100		R. Australia, Australia	
	16.85	50/100		R. Nederland, Holland	
	16.85	15	OIX5	Pori, Finland	
	16.85	50/60/100		R. Roma, Italy	
	16.85	7.5/100		Warsaw, Poland	
	16.85	35		Salonika (VOA), Greece	
	16.85	35/100		Tangier (VOA), Morocco	
17805	16.85	10	DZ16	Call of the Orient, Philipp.	
	16.85	10/100		R. Free Europe, Germany	
	16.85		VUD	AIR, Delhi, India	
17810	16.84		VUD	AIR, Delhi, India	
	16.84	15/100		BBC, London, Gt. Britain	
	16.84	50/100		R. Nederland, Holland	
	16.84	120/240		Peking, China	
17815	16.84	100	DMQ17	Deutsche Welle, Germany	
	16.84	7		R. Cultura, Brazil	
	16.84	100	OLR6E	Praha, Czechoslovakia	
	16.84		VUD	AIR, Delhi, India	
	16.84	50/200	KCBR	Delano, USA	
17820	16.84	50	CKNC	R. Canada, Canada	
	16.84		VUD	AIR, Delhi, India	
	16.84	35		Colombo, Ceylon	
	16.84	100	TAV	R. Ankara, Turkey	
	16.84	7.5	ZL14	Wellington, New Zealand	
17825	16.83	10/100	LLN	R. Norway, Norway	
	16.83	20/100	JOA/B17	R. Japan	
	16.83	0.5/50	BED37	Taipei, Taiwan	
17830	16.83		VUD	AIR, Delhi, India	
	16.83	50	WDSI	Brentwood, USA	
	16.83	35/100		N. Luzon (VOA), Philipp.	
	16.83	10/100		Allouis, France	
	16.83	110	WLWO	Bethany, USA	
	16.83	35/50/100		Tangier (VOA), Marocco	
17835	16.82	100	CSA209	R. Nacional, Portugal	
	16.82	35/50/100		Tangier (VOA), Morocco	

kc/s	m	kW	Call	Stations and countries	Rem.
17835	16.82	120/240		Peking, China	
	16.82	10/100		R. Free Europe, Germany	
	16.82	0.5/50	BED63	Taipei, Taiwan	
17840	16.82	10/50/100		R. Australia, Australia	
	16.82	100		Hörby, Sweden	
	16.82	5/25/50/100		Vatican City, Vatican State	
	16.82	50/100		R. Nederland, Holland	
17845	16.81	100	DMQ17	Deutsche Welle, Germany	
	16.81	100	ORU3/4	Bruxelles, Belgium	
	16.81		VUD	AIR, Delhi, India	
	16.81	35/50/100		Tangier (VOA), Morocco	
	16.81	20/100	JOA/B17	R. Japan	
17850	16.81	10/100		Allouis, France	
	16.81	10	PRL9	R. Nacional, R. de Jan., Br.	
	16.81	35/100		Tangier (VOA), Morocco	
	16.81	0.5/50	BED40	Taipei, Taiwan	
	16.81		VUD	AIR, Delhi, India	
17855	16.80	10/100		R. Free Europe, Germany	
	16.80		VUD	AIR, Delhi, India	
	16.80	20/100	JOA/B17	R. Japan	
17860	16.80	15/100		BBC, London, Gt. Britain	
	16.80	120/240		Peking, China	
	16.80	10/50/100		R. Australia, Australia	
	16.80	100	ORU3/4	Bruxelles, Belgium	
17865	16.80	100	VUD	Delhi, India	
	16.80	7.5/20		Damascus, Syria	
17865	16.80	20/50		R. Liberty, Germany	
	16.79			Khabarovsk, USSR	
	16.79	50		Komsomolsk, USSR	
	16.79	10/50/100		R. Australia, Australia	
17870	16.79	50/100		BBC, London, Gt. Britain	
	16.79	7.5/100		BBC, Singapore, Malaya	
17875	16.79	100	DMQ17	Deutsche Welle, Germany	
	16.79	7.5	PRL2	R. Dif. Educativa, Brazil	
	16.79	10/100		R. Free Europe, Germany	
	16.79	50	WDSI	Wayne, USA	
	16.79	35/100		Okinawa (VOA), Ryukyu Isl	
17880	16.78	100	CSA45	R. Nacional, Portugal	
	16.78	110	WLWO	Bethany, USA	
17885	16.78	10/100		R. Free Europe, Germany	
	16.78	120/240		Peking, China	
	16.78	20/50	WRUL	R. Boston, USA	
17890	16.77	15/50		BBC, London, Gt. Britain	
	16.77	7.5/100		BBC, Singapore, Malaya	
	16.77	30	HCJB	Voz de los Andes, Ecuador	
	16.77	10		Dacca, Pakistan	
	16.77	0.5/50	BED77	Taipei, Taiwan	
17895	16.76	100	CSA66	R. Nacional, Portugal	
	16.76	25	CXA54	Montevideo, Uruguay	
	16.76	8/100		München, VOA, Germany	
	16.76	50	HLK9	Seoul, Korea	
	16.76	100		R. Prague, Czechoslovakia	
17900	16.76	120/240		Peking, China	
				17910–21450 kc/s	
17915	16.75	50/100		Cairo, Un. Arab. Rep.	
20000	15.00	1	WWV	Lanham, USA	
				21450–21750 kc/s – 13 meter band	
21450	13.99	100	OLR7A	Praha, Czechoslovakia	
21455	13.98	35/50/100		Tangier (VOA), Morocco	
21460	13.98	20/50	WRUL	Boston, USA	
	13.98	50/200	KCBR	Delano, USA	
21470	13.97	15/100		BBC, London, Gt. Britain	
21475	13.97	10/50/100		R. Australia, Australia	
21480	13.97	50/100		R. Nederland, Holland	
21485	13.96	110	WLWO	Bethany, USA	
	13.96	15/100		BBC, London, Gt. Britain	
	13.96	10/100		R. Free Europe, Germany	
	13.96	5/7.5		R. Athens, Greece	
	13.96	7.5/100		BBC, Singapore, Malaya	
21490	13.96	100	DMQ21	Deutsche Welle, Germany	
21495	13.96	100	CSA67	R. Nacional, Portugal	
21500	13.95	50	WDSI	Brentwood, USA	
	13.95	20/50	WRUL	Boston, USA	
	13.95	1.5/50		R. Brazzaville, Congo	
21505	13.95	50	WDSI	Wayne, USA	
21510	13.94	100	ORU4	Bruxelles, Belgium	
21515	13.94	5/25/50/100		Vatican City, Vatican Siate	
	13.94	2	DZ18	Call of the Orient, Philpp.	
21520	13.94	100	HER8	Schwarzenburg, Switzerland	
21525	13.94	50/200	KCBR	Delano, USA	
21530	13.93	15/100		BBC, London, Gt. Britain	
21535	13.93	0.5		ELWA, Liberia	
21540	13.93	10/50/100		R. Australia, Australia	
	13.93	50	WBOU	Bound Brook, USA	
21550	13.92	15/100		BBC, London, Gt. Britain	
21555	13.92	50	WDSI	Brentwood, USA	
21560	13.91	50/60/100		R. Roma, Italy	

kc/s	m	kW	Call	Stations and countries	Rem.
21560	13.91	7.5/20		Damascus, Un. Arab. Rep.	
	13.91	35		N. Luzon (VOA), Philipp.	
21565	13.91	50/100		R. Nederland, Holland	
21570	13.91	50	WBOU	Bound Brook, USA	
	13.91		VUD	AIR, Delhi, India	
21580	13.90	10/100		Allouis, France	
21590	13.90	10/50		Karachi, Pakistan	
	13.90	10/50/100		R. Australia, Australia	
	13.90	25/100	WGEO	Schenectady, USA	
21600	13.89	50	CKRP	R. Canada, Canada	
	13.89	10/100		R. Free Europe, Germany	
	13.89	10/50/100		R. Australia, Australia	
21605	13.89	100	HEI9	Schwarzenburg, Switzerland	
	13.89		VUD	AIR, Delhi, India	
21610	13.88	110	WLWO	Bethany, USA	
21620	13.87	10/100		R. Free Europe, Germany	
	13.87	10/100		Allouis, France	
	13.87	20/100	JOA/B21	R. Japan	
	13.87		VUD	AIR, Delhi, India	
21630	13.87	15/100		BBC, London, Gt. Britain	
	13.87			Khabarovsk, USSR	
	13.87	10		Dacca, Pakistan	
21640	13.86	15/100		BBC, London, Gt. Britain	
	13.86	10/100		Allouis, France	
	13.86	7.5/100		BBC, Singapore, Malaya	
21650	13.86	100	DMQ21	Deutsche Welle, Germany	
	13.86	100		Budapest, Hungary	
	13.86	15/100		BBC, London, Gt. Britain	
	13.86		VUD	AIR, Delhi, India	
	13.86	7.5/100		BBC, Singapore, Malaya	
	13.86	50	WDSI	Wayne, USA	
	13.86	100	VUB	AIR, Bombay, India	
	13.86	7.5/100		BBC, Singapore, Malaya	
21655	13.86	15/100		BBC, London, Gt. Britain	
	13.86	7.5/100		BBC, Singapore, Malaya	
21660	13.85	15/100		BBC, London, Gt. Britain	
	13.85		VUD	AIR, Delhi, India	
21665	13.84	10/100		R. Free Europe, Germany	
21670	13.84	5	LLP	R. Norway, Norway	
21675	13.84	15/100		BBC, London, Gt. Britain	
	13.84	50/100		R. Nederland, Holland	
21680	13.84	10/50/100		R. Australia, Australia	
	13.84	35/50/100		Tangier (VOA), Morocco	
21685	13.83	20/100		AIR, Delhi, India	
21690	13.83	50	WDSI	Brentwood, USA	
	13.83		VUD	AIR, Delhi, India	
21695	13.83		VUD	AIR, Delhi, India	
21700	13.83	100	CSA49	R. Nacional, Portugal	
	13.83		VUD	AIR, Delhi, India	
21705	13.82	25/50/100		Tangier (VOA), Morocco	
	13.82	100	VUB	AIR, Bombay, India	
21710	13.82	15/100		BBC, London, Gt. Britain	
	13.82		VUD	AIR, Delhi, India	
21715	13.82	50/100		R. Nederland, Holland	
21720	13.81	7.5/100		BBC, Singapore, Malaya	
	13.81	15/100		BBC, London, Gt. Britain	
	13.81	10/100		R. Free Europe, Germany	
	13.81	10/100		Allouis, France	
21725	13.81	100	DMQ21	Deutsche Welle, Germany	
21730	13.81	5	LLQ	R. Norway, Norway	
	13.81	110	WLWO	Bethany, USA	
	13.80	20/100	ORU3/5	Bruxelles, Belgium	
21735	13.80	100	DMQ21	Deutsche Welle, Germany	
	13.80	110	WLWO	Bethany, USA	
21740	13.80	15/100		BBC, London, Gt. Britain	
	13.80	5/25/50/100		Vatican City, Vatican State	
	13.80	50/200	KCBR	Delano, USA	
	13.80	10/100		Allouis, France	
21745	13.80	10/100		R. Free Europe, Germany	
*25000	12.00	0.1	WWV	Lanham, USA	
				25600–26100 kc/s (11 m.b.)	
25610	11.71	50/100		R. Nederland, Holland	
25615	11.71	20	OEI38	Fleckendorf, Austria	
25630	11.70	50/200	KCBR	Delano, USA	
25650	11.70	15/100		BBC, London, Gt. Britain	
	11.70	7.5/100		BBC, Singapore, Malaya	
	11.70	100	DMQ25	Deutsche Welle, Germany	
25720	11.66	15/100		BBC, London, Gt. Britain	
25750	11.65	15/100		BBC, London, Gt. Britain	
25800	11.63	20		Paradys, So. Africa	
25840	11.61	15/100		BBC, London, Gt. Britain	
25850	11.60	15/100		BBC, London, Gt. Britain	
27855	11.61	10	CXA65	Montevideo, Uruguay	
25880	11.60	35/50/100		Tangier (VOA), Morocco	
25900	11.58	100	DMQ25	Deutsche Welle, Germany	
	11.58	10/100	LLA	R. Norway, Norway	
25950	11.56	50	WBOU	Bound Brook, USA	

LAST MINUTE INFORMATION AND CORRECTIONS

We regret not to have received the latest news from **Turkey, Syria** and **Iraq.**

ALBANIA (page 56):
Foreign Sce.: Add. 04.00–05.00 **Arabic** on 1088/7157 kc/s, 07.00–07.30 **Greek** on 1088 kc/s, 22.00–23.00 **Arabic** on 1088/7157 kc/s, 23.00–23.30 **Italian** on 1088 kc/s.

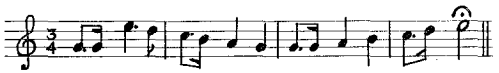
BELGIUM (page 57):
Foreign Sce. ($^{1}/_{11}$ 59–$^{28}/_{2}$ 60): 10.00–12.15 17845 kc/s; 10.00–12.00 21510/21730 kc/s; 12.15–13.00 15280/17845/17860 kc/s; 13.30–16.45 17845/21510/21730 kc/s; 17.00–17.15 17845 kc/s; 17.15–18.00 17845 kc/s; 17.00–17.45 11720/15335 kc/s; 18.00–21.00 15340/17845/17860 kc/s; 21.15–23.00 11720/11850/15335 kc/s; 23.15–01.00 9655/9745/9705/11850 kc/s.

CONGO (French) (page 102):
R. Brazzaville: Add. 09.15–10.55 (Sun only) on 11970 to We. Africa, 15440 to Ea. Africa, 15420, 21500 to Central Africa.
16.00 on 21500 to Central Africa.
18.10 on 21500 to We. Africa.

CUBA (page 148):
Ministerio de Communicaciones informs, that the following short-wave stations only are active at present; all other shortwave stations inactive: COCW 6370 kc/s "R. Rebelde": 11.00–05.00. COBZ 9030 kc/s: 16.00–04.00. COBQ 9235 kc/s "Onda Musical del Oyente" 13.00–05.00. COBC 9362 kc/s: 10.30–06.00. COCO 9535 kc/s "R. Libre": 12.00–14.30, 16.00–05.00. COCQ 9670 kc/s: 10.00–05.00. COBL 9833 kc/s: 24 h. COJK 9620 kc/s: 12.00–05.00. COBH 11800 kc/s "R. Cadena Habana": 13.00–05.00.

FRANCE (page 62):
European Sce.: English: Only 07.45–08.00 on 7160 kc/s. – **German:** W. only 18.00–19.00 on 6045 kc/s. – **Greek:** 11.30–11.45 on 11920 15365
Overseas Sce. – French: (I) 01.30–01.45 on 11920 kc/s. (II) 06.00–06.45 on 9620/9755/11920/15365 kc/s. – (III) 06.45–07.45 on 9620/11920/15365 kc/s. – (IV) 07.30–08.00 (Mo. only) on 9755 kc/s. – (V) 10.30–11.00 on 21580/21620 kc/s. – (III) 12.15–12.45 on 17765/21580 kc/s. – (VI) 13.00–15.00 (Sun. 15.50) on 17815/21620 kc/s – (I) 16.00–16.30 on 15130/17765 kc/s; 16.30–18.00 on 11845/15130 (and 17765 kc/s until 17.30) – (VIII) 17.30–17.45 (Mo.-Fri.) on 17850/21580 kc/s – (III) 20.00–20.45 on 15130/15350/17715 kc/s – (VI) 23.00–23.30, (V) 23.30–01.00 on 9560/11920 kc/s.
Arabic & Kabyle: (VII) 04.00–05.00 on 9560/11920/15365 kc/s – (IX) 06.00–11.00 on 7240/9560/11700 kc/s – (IX) 09.00–11.00 on 9685/15350 kc/s – (VII, IX) 11.00–13.00 on 7240/11700/15160/15350 kc/s – (IX) 13.00–16.00 on 6175/9685/11700/15350 kc/s – (VII) 16.00–18.00 on 11700/15160 kc/s – (VII) 16.00–19.00 on 11920/15350 kc/s – (IX) 19.00–23.00 on 7160/9560 kc/s – (IX) 20.00–23.00 on 7240 kc/s – (IX) 20.00–21.00 on 11920 kc/s.
Home Prgr's relayed on shortwaves:
05.14–23.00 on 6200 kc/s to Europe & Africa (France I).
07.00–07.25 on 11845/15350 kc/s to Africa (**France II**).
09.00–10.00 (Sun.) on 7160 kc/s to Europe (**France III**); 13.50–17.00 (Sun.) on 21580 kc/s to Africa (**France II**); 18.15–18.45 on 21580 kc/s to Canada (**France II**); 19.00–19.25 on 10430/11895/11920/15350 kc/s to Africa & Middle East (**France II**).

GERMANY FEDERAL REPUBLIC (page 66):
Canadian Forces Network (Military): Zweibrücken CFNZ 1562 kc/s 192.1 m 0.01 kW – V. by letter
Radio Free Europe (page 69): Int. Sig. (Polish Sce.):

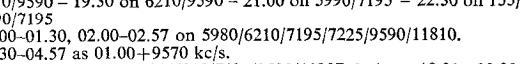


GERMANY DEMOCRATIC REPUBLIC (page 70):
R. Wolga, Menzelstrasse, Königswusterhausen. 263 kc/s 1141 m 150 kW: 05.00–23.00 in Russian for Sovjet troops in Germany.

INDIA (page 119):
Add to the list of frequencies: **New Delhi:** 6085, 9550, 9555, 9590, 9595, 9600, 9610, 9650, 9770, 11710, 11770, 11830, 11860, 11865, 11870, 11905, 15195, 15205, 15280, 15300, 15320, 17735, 17790, 17805, 17810, 17840, 21600, 21615, 21650, 21660, 21725 kc/s. – **Calcutta:** 6010 kc/s – **Lucknow:** 6170 kc/s.
External Services (transmissions not mentioned remain unchanged; see page 120): **General Sce.:** 23.15 on 9530/11830/15105 – 00.15 on 15105/17705 – 15.45 on 15225/17840 – 16.30 on 15270/17840 – 17.45 on 11770/21725 kc/s
Eastern Sce.: 00.30–00.50 on 11895/15280; 11.45–13.15 on 15320/17815; 10.00 (No. Ea. Asia)on 15205/17705/21615; 12.30 on 9595/12020; 12.15 on 17785/21650; 11.15 on 17810/21600 kc/s.
Western Sce.: 08.40 (Urdu) on 9770/11760/15105/17815 – 03.45 on 15105/17735 – 16.15 on 11710/15300 – 17.30 on 11920/15105 – 15.35 on 15225/17840 – 19.45 (We. Africa) on 15105/17790 – 19.45 (U. K.) on 9550/11710 – 18.45 on 9600/11865 kc/s.

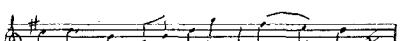
IRAN (page 111):
Home Sce.: N. m Persian: 02.30, 03.30, 05.30, 06.30, 08.27, 09.30, 10.30, 11.00 in 335/79/31 m.b. – 12.30, 13.30, 14.30, 15.30, 16.30 in 335/79/41 m.b. – 17.30, 18.30, 19.30 20.30 in 335/79 m.b.
Foreign Sce.: Urdu: 12.00 in 335/79/31 m.b. – **Arabic** 18.30 in 224/41 m.b. – **Turkish** 20.00 in 31 m.b. – **French** 20.15 and **English:** 20.30 in 224/31 m.b. – **For Iranians abroad:** 17.30 in 224/31 m.b.
Corrections to Regional Stations: R. Rizaiyeh: S.W. 8040 kc/s – **R. Sanandaj:** 11.30–18.30 on 920/6700 kc/s – **R. Meshed:** 13.30–17.30 on 1100/6870 kc/s – **R. Shiraz:** 13.00–18.00 on 1060/6385 kc/s – **R. Resht:** 14.00–17.30 on 660/7940 kc/s.

IRELAND (page 79):
Intern. Sign.:

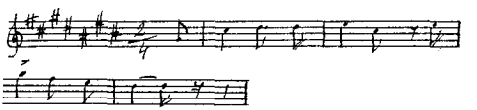


RUMANIA (page 84):
Foreign Sce.: New frequencies: English: 17.30 on 7195 – 19.00 on 6210/9590 – 19.30 on 6210/9590 – 21.00 on 5990/7195 – 22.30 on 155/5990/7195
01.00–01.30, 02.00–02.57 on 5980/6210/7195/7225/9590/11810.
04.30–04.57 as 01.00+9570 kc/s.
French: 16.30 on 5990/6210/7195/9590/11937 kc/s – 18.30, 20.30, 22.00 on 5990/7195 kc/s.
German: 18.00 on 755/6210/9590 – 19.00 on 5990/7195 – 21.00 on 755 – 22.00 on 155/6210/9590 kc/s.
Greek: 17.00 on 5990/6210/7195/9590 kc/s – 19.30 on 755 – 21.00 on 6210/9590 – 21.30 on 755 kc/s.
Persian: 15.30 on 5990/7195/9590 – 18.00 on 5990/7195 kc/s.
Italian: 17.30, 18.30 on 6210/9590 – 20.00 on 755/5990/6210/7195/9590 – 20.30, 22.00 on 755 kc/s.
Rumanian: For Europe: (Sun., Mo., Thurs., Fri) 21.30 on 6210/9590 – 22.30 on 755/6210/9590 kc/s. – **For No. America:** D. 23.15 on 6210/7195/9590. – 03.30 on 5980/6210/7195/7225/9570/9590/11810 kc/s.
Serbian: 17.00, 19.00 on 755 kc/s.
Spanish: 20.30 on 6210/9590 – 21.30 on 5990/7195 – 00.00 on 5980/6210/7195/7225/9590/11810 – 03.00, 04.00 as 00.00 + 9570 kc/s.
Turkish: 17.30 on 755; 19.30 on 5990/7195 kc/s.
Yiddish: 01.30–02.00 on 5980/6210/7195/7225/9590/11810 kc/s.
Concerts: 16.00[2]) on 5990/6210/7195/9590/11937 – 21.30[2]) on 6210/9590 – 22.30 on 755/6210/9590 kc/s.

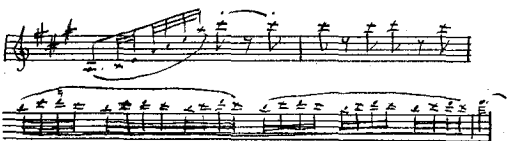
INT. SIG.:
Home Sce. 1' Prgr.:



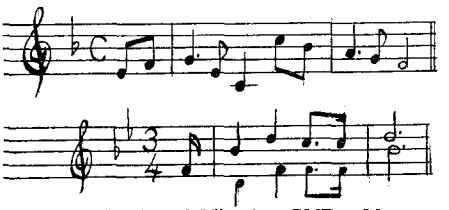
Home Sce. 2' Prgr.:



Foreign Sce.:



SPAIN (page 85):
INT. SIG.: Cadena Azul de Radiodifusion (page 87).



TIME TABLE: St. Pierre & Miquelon: GMT ÷ 3 h.

URUGUAY (page 167):
Add.: CXA61 6045 kc/s 10 kW El Espectador 12.00–03.00.

A DIRECTORY OF THE ADVERTISERS

ALL INDIA RADIO, P.O. Box 500, New Delhi, India. See text page 119, and advertisement page 40

AMPEX International, 934 Charter Street, Redwood City, California. See advertisement page 38, 39

ASAHI BROADCASTING COMPANY, Nakanoshima, Kitaku, Osaka, Japan: See text page 124 and advertisement page 124

AUDIO DEVICES, INC., Export Dept., 13 East 40th Str., New York 16, N.Y., USA. See advertisement page 37

AUSTRALIAN BROADCASTING COMMISSION, Radio Australia, Post Office Box 428 G. – G.P.O., Melbourne, Australia: See text page 130 and advertisement page 16

BERLINGSKE TIDENDE, Pilestræde 34, Copenhagen K. See advertisement page 180

BBC PUBLICATIONS (27), London W1, England. See text page 71 and advertisement page 73

BRITISH COMMONWEALTH INTERNATIONAL NEWS-FILM AGENCY LTD., School Road, London. N.W. 10, Gt. Britain. See advertisement page 179

CANADIAN BROADCASTING CORPORATION, International Service, P.O. Box 6000, Montreal, Canada: See text page 135 and advertisement page 14

COLLINS RADIO COMPANY, International Division, P.O. Box 1891, Dallas 21, Texas, USA. – England: 242 London Rd., Staines, Middlesex, England. – Canada: 11 Bermondsey Rd., Toronto, Ontario, Canada. – See advertisement page 49

COMPAGNIE FRANÇAISE THOMSON-HOUSTON, Groupe Electronique, 173 Blvd. Haussmann, Paris VIII, France. See advertisements coverpage 4 and pages 63–64

DEUTSCHE WELLE, Postbox 344, Köln, Wallrafplatz, Germany. See text page 66 and advertisement page 7

ELEKTROMESSTECHNIK WILHELM FRANZ K. G., Postbox 327, Lahr/Schwarzwald, Western Germany. See advertisement page 41

ENGLISH ELECTRIC VALVE CO., LTD., Chelmsford, England. See advertisement page 55

EUROPEAN BROADCASTING UNION, Technical Centre, 4 rue de la Vallée, Brussels. See text page 26 and advertisement page. 115

FERNSEH GMBH, DARMSTADT, Langraf-Philipps-Anlage 6, Postfach 329, Darmstadt. See advertisement page 31

GATES RADIO COMPANY, International Division, 13 East 40th Street, New York 16, N.Y., USA. See advertisement page 11

GAZETTE, Publisher. H. E. Stenfert Kroese N.V., Leiden, Holland. See advertisement page 54

HALLICRAFTERS, International Division, Raytheon Manufacturing Comp., Waltham, Massachusetts, USA. ..... coverpage 2

HAMMARLUND, Manufacturing Company, Inc. International Division, 13 East 40th Street, New York 16, N.Y., USA. See advertisement page 17

HELLESENS ENKE & LUDVIGSEN LTD., Aldersrogade 6, Copenhagen, Denmark. See advertisement page 20

INTERNATIONAL EVANGELICAL RADIO STATION (E.P.I.), P.O. Box 392. Berne 2, Switzerland. See advertisement page 50

INTERNATIONAL RADIO AND TELEVISION ORGANIZATION (OIR), 15 Liebknechtova, Prague 16, Czechoslovakia. See advertisement page 65

ROBERT KARST (ROKA), Berlin-SW 29 (US Sector), Germany. See advertisement page 52

LABORATOIRE INDUSTRIEL d'ELECTRONIQUE BELIN, 295, Av. Napoléon Bonaparte à Rueil-Malmaison (Seine et Oise) cover page 3

MARCONI'S WIRELESS TELEGRAPH COMPANY LTD., Chelmsford, Essex, England. See advertisement page 21

MINNESOTA MINING AND MFG. CO., International Division, 900 Bush Avenue, St. Paul 6, Minn., USA. See advertisement page. 35

MOSCOW RADIO, The Soviet Radio, Moscow, USSR. See text page 94 and advertisement page 93

NATIONAL RADIO CO., Inc., 76 Melrose, Mass., USA. – Export: AD Auriema, Inc., 85 Broad St., New York, N.Y., USA. See advertisement page 47

NATIONAL ASSOCIATION OF COMMERCIAL BROADCASTERS IN JAPAN: 8–7 Nishi-Ginza, Chuo-ku, Tokyo, Japan. See text page 123 and advertisement page 122

NIPPON HOSO KYOKAI, Japan Broadcasting Corporation, Radio Japan, NHK's International Broadcasting Sce., 2-2-chome Uchisaiwai-cho, Chiyoda-ku, Tokyo, Japan. See text page 121 and advertisement page 123

NORSK RIKSKRINGKASTING, Radio Norway, Kringkastinghuset, Bj. Björnsonsplass 1, Oslo, Norway. See text page 80 and advertisement page 12

PHILIPS N.V. Eindhoven, Holland: See advertisements pages 9, 22, 23

POLSKIE RADIO, Polish Radio, Komitet do Spraw Radiofonii, Noakowskiégo 20, Warszawa. See text page 81 and advertisement page 27

PYE LTD., Sales Dept., TV Transmission Division, Cambridge, England. See advertisement page 42

PYE LIMITED, Export Division, Cambridge, England. See advertisement page 43

RADIO CLUBE DE MOZAMBIQUE, P.O. Box 594, Lourenco Marques: See text page 106 and advertisement page 107

RADIO CORPORATION OF AMERICA, RCA International Division, 30 Rockefeller Plaza, New York 20, N.Y., USA. See advertisement page 19

RADIO DENMARK, The Voice of Denmark, The Shortwave Dept., Radio House, Copenhagen V.: See text page 60 and advertisement page 59

RADIOTELEVISIONE ITALIANA (RAI), via del Babuino 9, Roma, Italy. See text page 79 and advertisement page 15

RADIO NACIONAL DE ESPANA, Castellana No. 42, Madrid, Spain. See text page 85 and advertisement page 86

RADIO NEDERLAND WERELDOMROEP, Hilversum, Holland. See text page 77 and advertisement page 77

RADIONETTE, Trondheimsveien 100, Oslo, Norway. See advertisement page 13

RADIO PEKING, Peoples Republic of China, China. See text page 115 and advertisement page 117

RED DE EMISORAS DEL MOVIMIENTO, Ayala 15, Madrid, Spain. See text page 85 and advertisement page 88

ROCKE INTERNATIONAL CORPORATION, 13 East 40th Street, New York 16, N.Y. See advertisement page 25

SIEMENS EDISWAN. ASSOCIATED ELECTRICAL INDUSTRIES EXPORT LTD., Siemens-Edison-Swan, 155 Charing Cross Rd., London W.C. 2. See advertisement page 53

SORAFOM, Sociéte de Radiodiffusion de la France d'Outre Mer, 48 rue d'Amsterdam, Paris IX, France. See text page 65 and advertisement page 61

SOCIEDAD ESPANOLA DE RADIODIFUSION (S.E.R.), Avenida de José Antonio 32, Madrid, Spain. See text page 87 and advertisement page 83

STANDARD TELEPHONES AND CABLES, LIMITED (BRIMAR) Connaught House, Aldwych, London W.C. 2. – Valve Division: Footscray, Sidcup, Kent. See advertisement page 45

SVERIGES RADIO, SWEDISH BROADCASTING CORPORATION A/B, Radio Sweden, Stockholm 7, Sweden: See text page 89 and advertisement page 90

SWISS SHORTWAVE SERVICE, Swiss Broadcasting Corpo., Neuengasse 23, Berne, Switzerland: See text page 91 and advertisement page 5

THE VOICE OF THE ANDES, INTERNATIONAL MISSIONARY STATION HCJB, Casilla 691, Quito, Ecuador, S. America: See text page 165 and advertisement page 52

THE VOICE OF AMERICA, Washington 25, D.C., USA. See text page 142 and advertisement page 3

WICON, Howitzvej 5–7, Copenhagen F, Denmark. See advertisement page 54

ZENITH RADIO CORPORATION, International Division, 6001 West Dickens, Chicago 39, Ill. See advertisement page 2

TUCKEL-KONTAKT, Heilbronn/Neckar, Germany. See advertisement page 51

TELEFUNKEN G.m.b.H., Berlin S.W. 61, Mehringdamm, Germany. See advertisement page 33

WORLD RADIO-TV PUBLICATIONS, Lindorffsalle 1, Hellerup, Denmark. See advertisement page 29

Reservation of space as early as possible is advisable and will assure you the best possible placing and service. World Radio Television Handbook, Lindorffsallé 1, Hellerup, Denmark. Brochure and ratecard on request.

CLASSIFIED ADVERTISEMENTS – Copy for Classified column (Da. Kr. 6,00 pr. line – 15000 copies) reaches thousands of interested buyers. Cash remittance must accompany any order. Mail to World Radio Television Handbook, Lindorffsalle 1, Hellerup, Denmark: Penfriends, Buying and Selling, Exchange of Stamps, Exchange of Taperecordings, Hobby-Clubs etc. etc.

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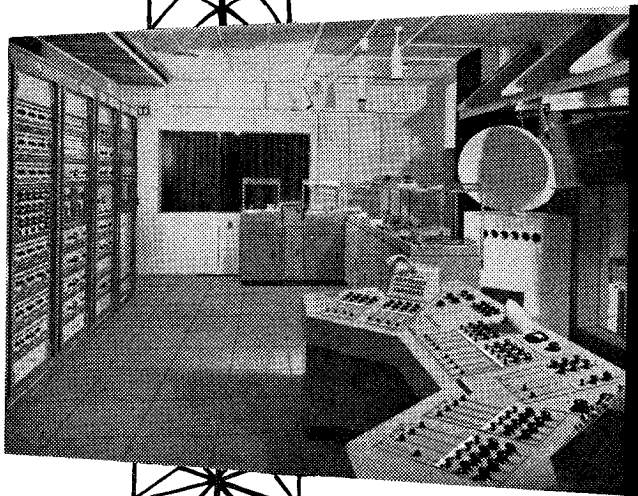

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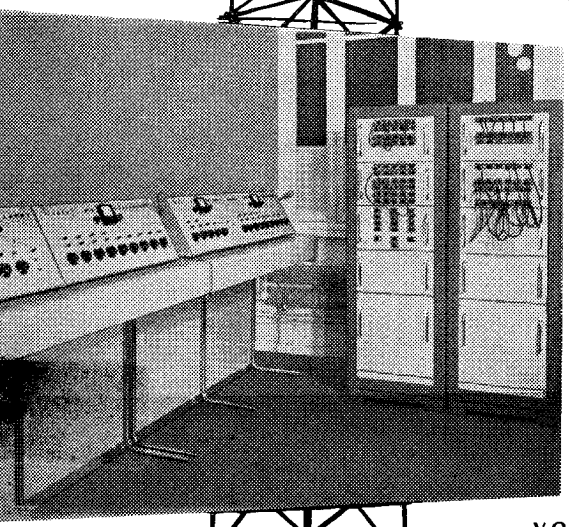
Tél. 967-15-54 - Câbles : Belinusine-Rueil



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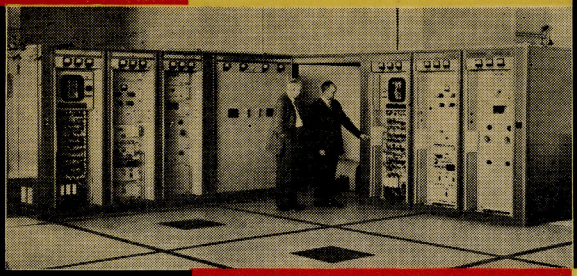

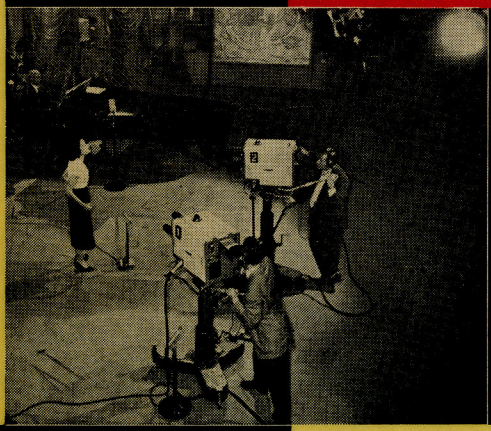

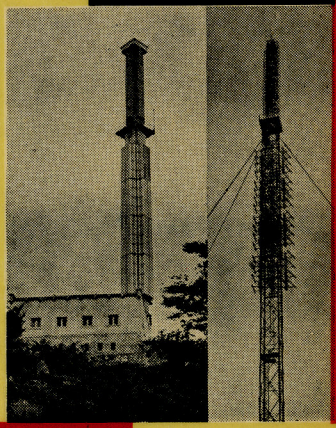

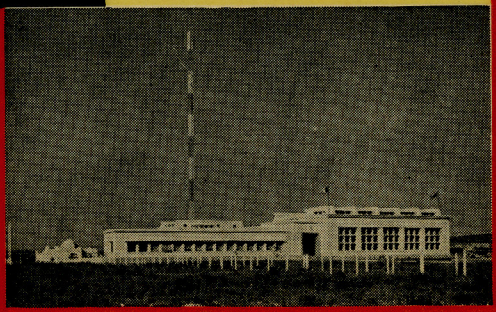

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